



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

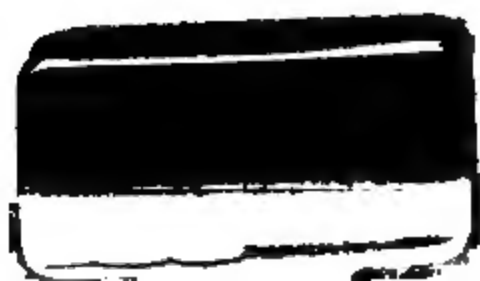
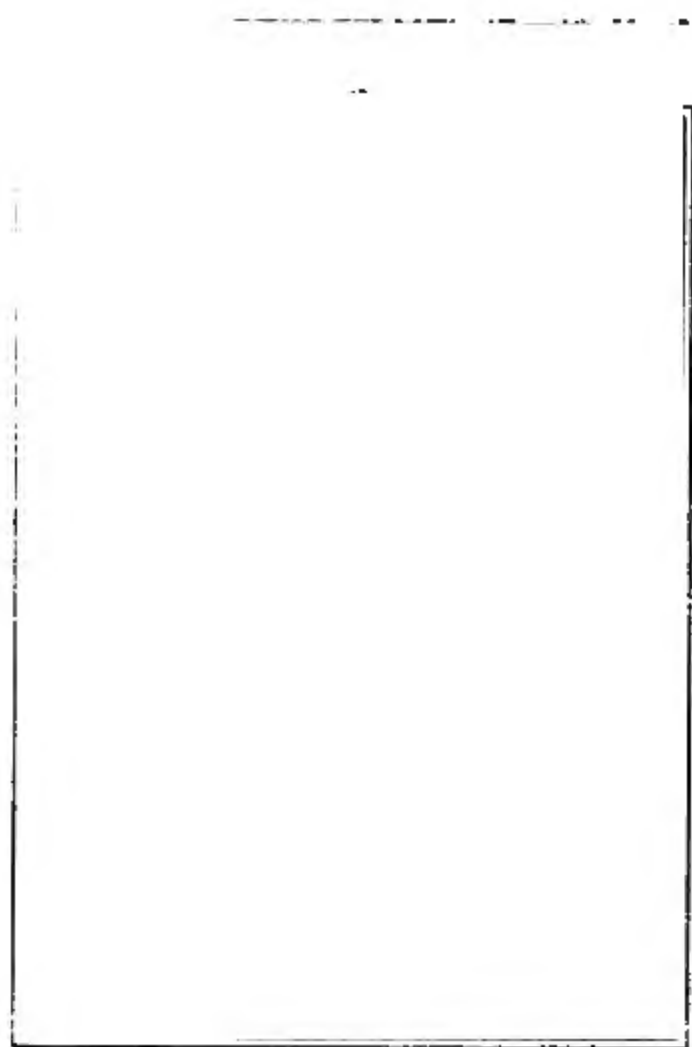
Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>



3/

DOCUMENTS

OF THE

ASSEMBLY

OF THE

STATE OF NEW-YORK,

SEVENTY-FIFTH SESSION.

1852.

VOLUME 4.

No. 90.

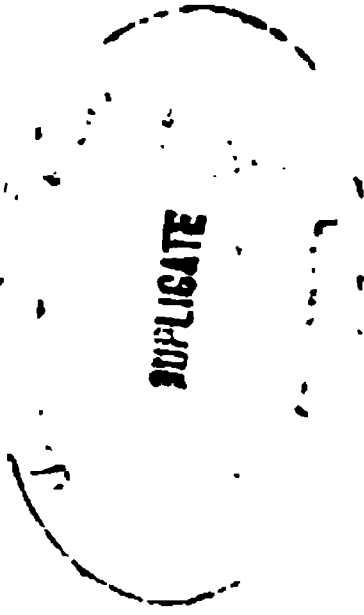
ALBANY:

C. VAN BENTHUYSEN, PRINTER TO THE LEGISLATURE,

No. 407 Broadway.

1852.

Dep. U. of C.
O'



State of New-York.

No. 90.

IN ASSEMBLY, MAR. 4, 1852.

ANNUAL REPORT

**Of the State Engineer and Surveyor, on the Canals
of New-York, for 1851.**

**STATE ENGINEER AND SURVEYOR'S OFFICE, }
Albany, March 4, 1852. }**

To the HON. JONAS C. HEARTT,

Speaker of the Assembly:

Sir—I have the honor to transmit herewith to the Legislature, the annual report of the State Engineer and Surveyor on canals, for the year 1851, required by chapter 377, as prepared by my predecessor.

I am, very respectfully,

Your obedient servant,

WM. J. McALPINE,

State Engineer and Surveyor.

REPORT.

STATE ENGINEER AND SURVEYOR'S OFFICE, }
Albany, December 31, 1851. . }

To the Honorable, the Speaker of the Assembly :

Sir,—In obedience to the 15th section of chapter 377 of the Laws of 1850, I have the honor to submit the annual report of the State Engineer and Surveyor on the canals of New-York.

The names and lengths of canals completed and in use, are as follows:

	Miles.
Erie canal (enlargement location),	853
Champlain canal,	66
Chenango canal,	97
Black River canal and feeder, (part in use,)	44½
Oswego canal,	38
Oneida Lake canal,	6
Oneida River improvement,	20
Cayuga and Seneca canal,	23
Chemung canal and feeder,	39
Crooked Lake canal,	8
Genesee Valley canal, (part in use,)	86
Length of canals in use,	<u>780½</u>

Additional work in progress.

	Miles.
To complete Black River canal,	3
Genesee Valley canal,	32
Black River improvement under contract,	42½
In progress of construction,	<u>77½</u>

Total in use and in progress of construction, 858 miles.

The cost of engineering, including office expenses, agencies and superintendence of work under contract on all the canals for the past year, has been as reported by the division engineers :

On eastern division,.....	\$46,840 30
On middle division,.....	24,757 79
On western division,.....	58,956 13
In all,.....	<u>\$130,554 12</u>

In addition to the charge of work under contract, large forces have been required in the location, measurement, computations and plans for preparing the enlargement of the Erie canal, the Genesee Valley and the Black River canals for contract as authorized by the law of the last session of the Legislature, and in the lettings of the same.

Under this act (see Laws of 1851, chap. 485,) the Canal Board, on the 28th day of July, ordered to be prepared, without delay, the locations, plans, maps and quantities required in order to place the work under contract at the earliest date possible. Under this order and instructions from this department the division engineers proceeded to perform the whole work, and made their final reports on the 10th of October last.

The maps, plans, &c., were approved and immediately submitted to the Canal Board; they were adopted by them and the work advertised for letting. Proposals were received until the 18th of November, and the opening of the bids began on the 20th and occupied the Board four days. The number of propositions received were over 2,600 and each proposition generally embraced bids for a large number of sections or structures.

The canvass of these propositions occupied the Engineer Department over twelve days. Abstracts of this canvass are herewith presented in appendix, showing the amount of each proposition for each section of canal and each mechanical structure, the estimated cost of the same and the names of proposers and guarantors.

The law of 1851 above referred to provides that "contracts for the completion of the whole work of such canals," [Erie canal

enlargement, Black River and Genesee Valley canals] "shall not exceed to the amount of ten per cent. the sum of \$10,508,141, being the amount of the estimate for completing such canals, except for structures and work not included in the specifications and estimates as contained in the report of the State Engineer and Surveyor for the year 1851, exclusive of land damages."

Since the date of the last report and the estimates on which the appropriations contained in the law as above quoted were based, important changes have been made in the location of the line, by which the length of the canal has been materially reduced but the cost increased. The question of an independent line east of Rochester has long occupied the attention of the State officers in charge of the canals, and in the report of 1851 Mr. Stillson urges important considerations in favor of this line, and estimates its increased cost over the cost of enlargement on the old line at \$489,000, and the saving in distance of $6\frac{1}{4}$ miles. [See report of 1851, page 186.]

During the past year surveys of this line were carefully made, and the difference in cost found to be less than that estimate; after the completion of these surveys the Canal Board visited the line and heard arguments and examined all the questions and interests involved, and decided upon the adoption of the independent line.

An important change was made upon like examination east of the village of Holley, by which the length of the line was reduced 3 miles, and the cost increased \$12,000. A change was also made in the location of the line near Chittenango by the Canal Board.

The increased cost of these changes of location must now be added to the estimate of 1851, being for work "not included in the specifications and estimates."

An important change was made by the Canal Board in the character of bridge structures, changing a large number from

wood to iron. The propositions showed that iron bridges of cheaper plan than had heretofore been used could be adopted, and that the cost on former plans could be reduced, the Board therefore as a matter of economy adopted iron bridges in all cases where they are to be permanently maintained by the State.

Some other structures are to be added to the estimates as here after stated.

Embraced in the estimates of 1851 and forming part of the amount named in the law, was the estimated cost at contract prices of work then under contract. Under authority of law, [see chap. 130, Laws of 1851,] the Canal Commissioners have materially increased the prices for work on sections 11, 12, 13 and 14, west of Lockport, and these sections will therefore exceed the estimate in cost by \$77,248.50, as stated by the division engineer. The Canal Board have also changed the plan at the Erie pier at Buffalo, and a portion of the locks in the Genesee Valley canal from composite to stone. Large additions to the quantities were also made in the embankment and other work for crossing the Cayuga marshes. The engineer who made the estimates for the work on this portion of the line, as contained in the report of 1851, is of the opinion that the additions will not be required.

The whole cost of the *ascertained* "structures and work" not included in the estimate of 1851, which go to increase the cost of the work recently placed under contract, and the cost of the work under contract at the date of the estimate, are added to the amount of the estimate for completing the canals, as they increase the value of work *under contract* to the same amount. I do not, however, add the additional cost growing out of increased prices allowed by the Legislature or the Canal Commissioners, which increase, in one instance above noticed, amounts to over \$77,000.

The increased cost of quantities or "work," and for changes in specifications or plans for bridges, piers, aqueducts, &c., which should be added to the estimate of

last report, is,	\$400,279 95	
Add for three reservoirs on Black River canal,	35,566 00	
Cost of independent line east of Rochester, above cost of line as reported in estimate of 1851, being increase of "work,"	427,600 00	
Same for independent line east of Holley,	11,900 00	
Same for independent line at Chittanooga,	32,835 92	
	<hr/>	908,181 87
Amount of estimate, 1851,	\$10,508,141 00	
10 per cent. addition, as authorized by law,	1,050,814 10	
	<hr/>	11,558,955 10

Total amount authorized by law, as indicated by examinations and estimates of the year to complete the Erie canal enlargement, the Genesee Valley and Black River canals,\$12,467,136 97

The estimated cost of work required to complete the above canals, is as follows:

Work under contract at date,	\$9,358,450 33	
Work not under contract, viz:		
Feeder in Mohawk Valley,	150,000 00	
Ishua feeder and lock house,		
Genesee Valley canal,	44,000 00	
	<hr/>	\$9,552,450 33
		<hr/>
		2,914,686 64
Deduct amount expended last year on <i>existing</i> and <i>abandoned</i> contracts,		620,957 92
		<hr/>
Estimated cost of contracts less than amount as provided by law,		2,293,728 72
		<hr/>

A large amount of work reported in 1851 as under contract, was abandoned early in the year; this work is included in the recent lettings, and an amount equal to its estimated value, is therefore to be deducted from the work reported as under contract, and added to the estimated cost of work remaining to be let, as stated in last report.

The following statement compares the estimate of this department for 1851, with the work at contract prices under the recent lettings:

The work as estimated not under contract in last report, was as follows :

Eastern Division.

Enlargement of Erie canal,	\$2,119,146 14	
Black River canal,	221,968 00	
Add for work abandoned and re-let,	15,572 00	
	<hr/>	\$2,356,686 14

Middle Division.

Enlargement of Erie canal,	\$356,996 62	
Add for work abandoned and re-let,	178,354 97	
	<hr/>	1,035,351 59

Western Division.

Enlargement of Erie canal,	\$4,712,005 62	
Genesee Valley canal,	200,000 00	
	<hr/>	4,912,005 62
Add for work not included in est. as before stated,	908,181 87	
	<hr/>	
Total estimate as per report of 1851,	\$9,212,225 22	
	<hr/>	

This work has been contracted for at the late letting, as follows :

Eastern Division.

Erie canal enlargement,	\$1,431,150 06	
Black River canal,	222,076 60	
	<hr/>	
	\$1,653,226 66	
To be contracted for,	150,000 00	
	<hr/>	\$1,803,226 66

Middle Division.

Erie canal enlargement,	\$990,367 21
-------------------------------	--------------

Western Division.

Erie canal enlargement,	\$4,966,574 18
-------------------------------	----------------

Genesee Valley canal,	149,570 00
-----------------------------	------------

	<u>\$5,116,144 18</u>
--	-----------------------

To be contracted for,	44,000 00
-----------------------------	-----------

	<u>5,160,144 18</u>
--	---------------------

	<u>7,958,738 05</u>
--	---------------------

Contracts less than engineer's estimate,	<u>\$1,258,487 17</u>
--	-----------------------

The length and estimated cost of work under contract, the amount done and remaining to be done at contract prices, are exhibited in tables annexed. These tables show that there is under contract, of the enlargement of the Erie canal, on the

Eastern Division.

Eastern sub-division, 34 miles, es-	
-------------------------------------	--

timated to cost,	\$1,127,072 69
------------------------	----------------

Western sub-division, 16 $\frac{2}{3}$ miles,	
---	--

estimated to cost,	702,966 37
--------------------------	------------

Black River canal, 48 $\frac{4}{5}$ miles, es-	
--	--

timated to cost,	363,821 35
------------------------	------------

	<u>\$2,193,860 41</u>
--	-----------------------

Middle Division.

Eastern sub-division, 20 $\frac{1}{8}$ miles, estimated to	
--	--

cost,	\$987,000 03
-------------	--------------

Western sub-division, 17 $\frac{2}{3}$ miles,	
---	--

estimated to cost,	955,690 49
--------------------------	------------

	<u>1,942,790 52</u>
--	---------------------

Western Division.

Eastern sub-division, 84 $\frac{4}{5}$ miles, estimated to	
--	--

cost,	\$3,758,050 52
-------------	----------------

Western sub-division 50 $\frac{5}{8}$ miles,	
--	--

estimated to cost,	2,496,860 00
--------------------------	--------------

Genesee Valley canal, 30 miles, es-	
-------------------------------------	--

timated to cost,	879,008 38
------------------------	------------

	<u>7,134,908 90</u>
--	---------------------

Making a total amount of work under contract of.	<u>\$11,271,559 83</u>
--	------------------------

Of the above amount, there has been done as follows:

Eastern Division.

Eastern sub-division,	\$184,577 00	
Western sub-division,	188,236 64	
	<hr/>	\$372,813 64

Middle Division.

Eastern sub-division,	\$322,097 91	
Western sub-division,	199,802 00	
	<hr/>	521,899 91

Western Division.

Eastern sub-division,	\$126,608 70	
Western sub-division,	485,156 65	
Genesee Valley canal,	406,630 60	
	<hr/>	1,018,395 95

Making a total amount of work done under present contracts,	\$1,913,109 50
---	----------------

Leaving amount of work now under contract, and to be done,	\$9,358,450 33
--	----------------

To be put under contract as follows:

Rocky-reef feeder, eastern division,	150,000 00
Ischua feeder and lock house, Genesee Valley canal,	44,000 00

Total amount required to complete the above named canals as contemplated by Laws of 1851,	<u>\$9,552,450 33</u>
---	-----------------------

The whole of the work for the enlargement of the Erie canal being now under contract; all the plans being settled upon for the entire completion of the work, it will not, it is believed, be out of place to give a brief description of the work with some drawings of the important mechanical structures.

Beginning in the city of Albany at the head of tide-water on Hudson's River, the Erie canal lifts itself over the ridge of slate rock, through which the Mohawk plows its way to the Hudson, by a series of 18 lift rocks, rising in the distance of twelve miles, some 180 feet; continuing at this elevation, it reaches the valley

of the Mohawk at the distance of 14 miles. The locks on this portion of the enlargement are located so as to have in no case less than 800 feet of pond reach between them. In the old canal there were nine locks crowded within less than one mile; the pond reaches were so small, that one lock-full of water would depress the surface so that loaded boats could not float, and great inconvenience to the navigation was the result.

The top-water surface on this portion of the canal varies from 80 to 100 feet in width. At this point the canal crosses the Mohawk by a wooden aqueduct supported by abutments and piers of stone masonry. The towing path is supported by 27 cut stone arches. The ashlos in this, as in all the important structures on the canal, are of the best grey lime-stone, taken from quarries on the Hudson near Kingston, at Amsterdam, on the Mohawk, at Onondaga and at Lockport.

Following the Mohawk, the canal re-crosses the river twelve miles farther west, making 26 miles from Albany. This aqueduct is similar to the other, with only 14 arches.

The city of Schenectady lies on the 28th and 29th miles of the canal. Here the Mohawk becomes navigable for small craft, and before the construction of the Erie canal this was the great depot for merchandize going westward and for the produce going eastward; from Albany to Schenectady was a portage, thence by Durham boats, "poled" up the Mohawk to Rome, passing the Little Falls by locks and canal; from the Mohawk the boats passed into Wood Creek, thence to Oneida Lake, and down the Lake to "*Three River Point*," whence they could pass down the Oswego or up the Seneca. By the Oswego, they entered Lake Ontario and reached the western counties; by the Seneca, they penetrated the country to Ithaca at the head of Cayuga Lake; they diverged from the Seneca into the smaller streams flowing from the Onondaga, Skaneateles, Owasco, Canandaigua, Seneca, and Crooked Lakes, and thus supplied a large district in our own State remote from the seaboard.

The contemplation in the improvement in the condition of society in this portion of our State, since those days, fills the

mind with gratitude to the Creator for his goodness, and with admiration for the powers of the human intellect.

The Erie canal stretching out its tentaculæ, draws nourishment from far distant States, and affords business to localities, which, but for its construction, would at this present be entirely unknown to civilization.

At Frankfort, a distance of 101 miles from Albany, the canal attains an elevation of 425 feet above tide; this level is reached by 45 locks, varying from 8 to 11 feet lift each. Originally the locks were single, and 15×90 feet in the chamber; now they are double and 18×110 feet. The capacity of the canal is increased at least five times by the improvement in the locks.

From Frankfort to Syracuse, a distance of 70 miles, is on the old canal one unbroken level; but for the enlarged canal a three feet lift lock is constructed in the western suburbs of Utica. This became necessary in consequence of adopting the plan of *raising* the level of the old canal instead of *depressing* the bottom three feet. The citizens of Utica owning property on the canal remonstrated against the plan of raising the level through the city because of the serious injury to them; and after the locks at Syracuse had been constructed, which *fixed* the plan, it was, as a matter of economy, found better to construct this three feet lift lock than pay the large damages which raising the level would create.

At Syracuse the canal falls 27 feet by two locks of $10\frac{1}{2}$ feet lift each, and one of 6 feet. From this level the Oswego canal issues, following the valley of the Onondaga creek to the Seneca river, thence down the Seneca and Oswego rivers by dams and locks to Lake Ontario at Oswego.

About five miles from Syracuse the enlarged canal rises by a lock $7\frac{3}{4}$ feet; (on the old canal there was a lock of 5 feet lift at Geddes, which is about $2\frac{1}{2}$ miles from Syracuse;) thence to the village of Jordan, about 190 miles from Albany and 19 from Syracuse, the canal is level.

From this to the Seneca river the canal drops some 25 feet to an elevation of about 381 feet above tide water. The old canal crosses the Seneca and Clyde rivers on their own waters, but the enlarged canal crosses them by aqueducts. This is one of the most important changes in the plan of location which the enlargement has made and requires a short description.

The old canal, as before stated, crosses on the level of the waters of the Seneca and Clyde rivers; and these rivers at this point, and for several miles above and below, traverse the Cayuga marshes, which, in the driest seasons of the year, rise only 12 to 18 inches above the surface of the waters: these marshes are some two miles wide, and consist entirely of vegetable mould to the depth of 11 to 15 feet. The present canal is cut through this muck, and a towing path is constructed of gravel brought from the hard land on either side. The water of the present canal is only four feet in depth. It is obvious that seven feet water cannot be had without dredging the bed of the Seneca river, and excavating the prism of the canal through the marshes three feet deeper than the present canal; this is all under-water excavation.

It has been found somewhat expensive to maintain four feet water, and it is believed by many that the maintenance of seven feet depth of water would be impracticable. Although there are good arguments on both sides, I did not deem it prudent to change so important a location, made by the Canal Commissioners, with the advice of experienced engineers, previous to my official connection with the subject.

The plan of the enlargement is to cross the rivers with aqueducts, elevating the level of the canal some ten feet above the present level across the marshes, building heavy embankments with materials taken from the hard land on each side of the marshes. This, tho' believed to be the more expensive, is undoubtedly the safest plan.

After leaving the marshes, the canal follows up the valley of the Clyde river to the village of Lyons, thence up the valley of Mud creek as far as the village of Macedon, thence across the

“Perrinton swamp” to the valley of the Irondequoit, the passage of which presents the most formidable undertaking on the whole line.

The width of this valley is nearly ten miles; the surface of the ground is 20 to 80 feet below canal bottom. The heaviest mile section is estimated to contain 1,675,200 cubic yards of embankment and to cost \$393,491.

In crossing this valley the old canal is located along the margin of the hills, which approach each other as you pass southward, making the valley narrower and greatly cheapening the work, though enormously increasing the distance. The location of the enlargement across this valley is *eight miles* shorter than that of the old canal. [See Division Engineer's report on this subject.]

Leaving the Irondequoit, the canal passes over to the valley of the Genesee, and crosses that river at the city of Rochester, by an elegant cut stone aqueduct, a plan and view of which are hereto annexed. Rochester is 269 miles from Albany.

After leaving the Cayuga marshes, the canal rises by 14 lift locks 116 feet to the level of Rochester, and is 497 feet above tide-water. This level extends unbroken 63 miles to Lockport, which is 333 miles from Albany; at this village is a flight of five combined double locks, rising 55 feet 10 inches to the level of Lake Erie, 553 feet above tide.

At the distance of 7 miles from Lockport, the canal enters Tonnawanda creek and occupies the same for a distance of twelve miles, and leaves it at the village of Tonnawanda, taking the margin of the Niagara river to Black rock, a distance of nine miles, where it enters Lake Erie, 360 miles from Albany, and continues for a distance of three miles to the city of Buffalo.

Respectfully submitted,

H. C. SEYMOUR.

DOCUMENTS.

R E P O R T
OF
CHARLES A. OLMSTED,
DIVISION ENGINEER UPON THE EASTERN DIVISION OF
THE NEW YORK STATE CANALS.

REPORT.

STATE OF NEW YORK,
OFFICE OF DIVISION ENGINEER, }
Albany, Dec. 31st, 1851. }

HON. H. C. SEYMOUR, *State Engineer and Surveyor* :

Herewith I have the honor to present the annual report of the condition of the eastern division of the canals.

The reports of the resident engineers hereto annexed, give a detailed account of the work completed and in progress; to them your attention is respectfully invited.

The work under contract at this time is estimated to cost at contract prices as follows :

On the eastern sub-division,	\$1,127,072 69
Amount done on the same to date,	184,577 00

Remaining to be done,	\$942,495 69
-----------------------------	--------------

On the western sub-division :

Enlargement of the Erie,	\$702,966 37
Black River canal,	363,821 35

Total under contract western sub-division,	\$1,066,787 72
Amount done on the same,	188,236 64

Remaining to be done,	\$878,551 08
-----------------------------	--------------

Total under contract remaining to be done on this division	\$1,821,046 77
--	----------------

The only important work not under contract is the feeder to be brought in at some point between Little Falls and Schoharie creek. An estimate was given in the last annual report for a feeder from the Mohawk, to enter the canal a few hundred yards below lock No. 36. Since then, more thorough examinations have been made of several routes and projects for a feeder, to wit: Bowman's creek reservoirs; found to be insufficient. Re-erection of the Minden dam, with feeder extended thence to the canal level below lock No. 32; found to be too expensive in consequence of the damages to the "Mohawk flats." The Garoga and Canada lakes reservoirs; too distant and too expensive. Rocky rift route; this appears to be the most feasible; 1st, It requires a dam only about two and one-half feet high across the Mohawk; 2d, comparatively little damage is done to the bottom land above; 3d, it will not cost more than \$150,000, and it is believed that it may be done for \$120,000; 4th, it will be easy to increase the quantity of water at any future period by taking in the East Canada creek above the dam at Rocky rift, thus avoiding the hazard of an aqueduct for the same over the river; 5th, it is a great advantage to have the sources of the feeders as near the canal as possible, because the management of the water will be rendered safe without additional expense in superintendence. A map is herewith submitted, showing the several routes named.

The only work besides the above-named feeder, the completion of which is not provided for in the contracts recently made under the law of 1851, is that of removing the "*big bevel*" from the enlarged locks constructed prior to the suspension of the enlargement in 1842. This work must be performed before boats, constructed on the most approved model, for the enlarged canal, can be passed, with full cargoes, through these locks.

BLACK RIVER CANAL AND ERIE CANAL FEEDER.

All the work necessary to complete this enterprise is now under contract, to be completed by the first day of April, 1854.

The total estimated cost at contract prices is.....	\$363,821 35
Work done to date,.....	39,220 00
Remaining to be done,.....	324,601 35

This amount includes 35,566 dollars for three reservoirs on the head waters of Black River, not included in the estimates contained in the last annual report.

The project for the improvement of the River, mentioned in last year's report, after making the proper explorations, was abandoned because of the limited extent of country drained by the lakes, which we proposed to convert into reservoirs. The old plan of "*wing dams and jetties*" was adopted and put under contract at a cost considerably above the estimate contained in the aforesaid report. The reason for this is explained by the resident engineer, D. C. Jenne, Esq., in his report herewith.

ENGINEERING EXPENSES.

The reports of the resident engineers contain statements of the names of all the engineers employed on their respective subdivisions during the year 1851, and the amount of compensation received by each.

These statements show the expenses to have been as follows:

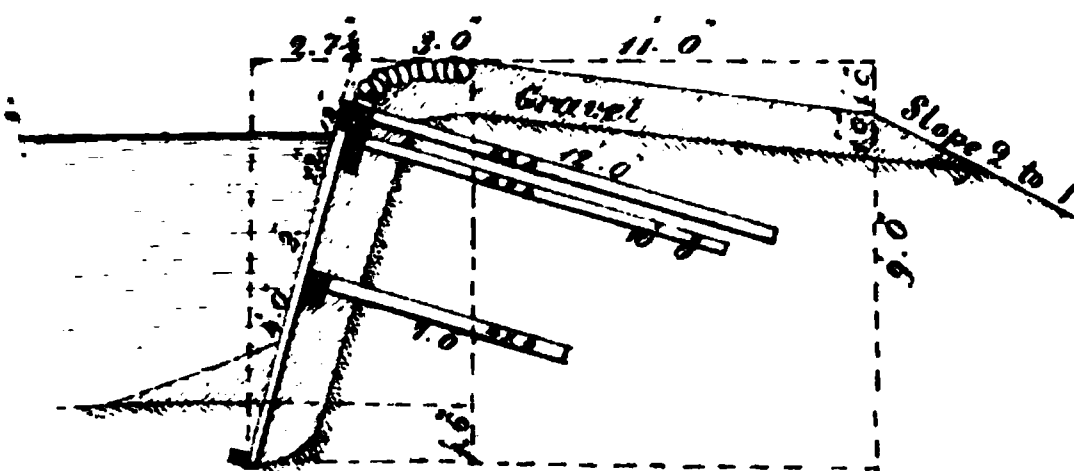
On eastern sub-division of enlargement,.....	\$23,364 82	
" western do do.....	\$10,409 96	
" Black River canal,.....	10,900 50	
	<hr/>	21,310 46
		<hr/>
		\$44,675 28
Add division engineer's salary,.....	1,700 00	
Travelling expenses,.....	466 02	
	<hr/>	\$2,166 02
		<hr/>
Total,.....		<u>\$46,840 30</u>

Respectfully submitted,

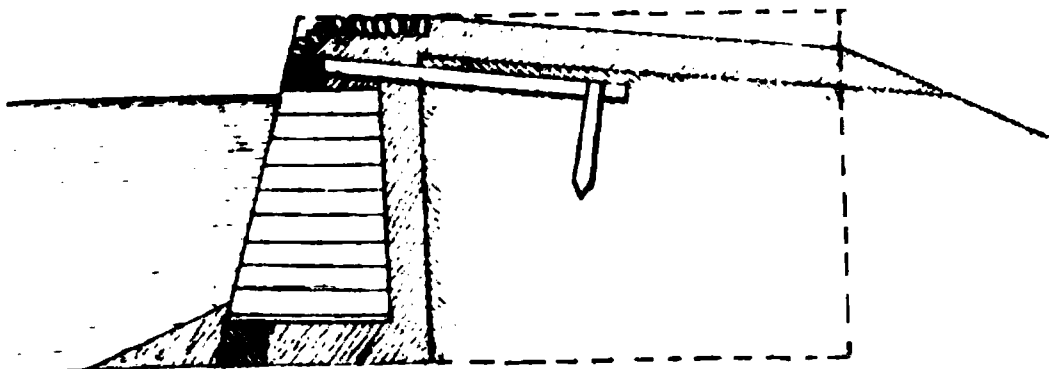
CHARLES A. OLMSTED,

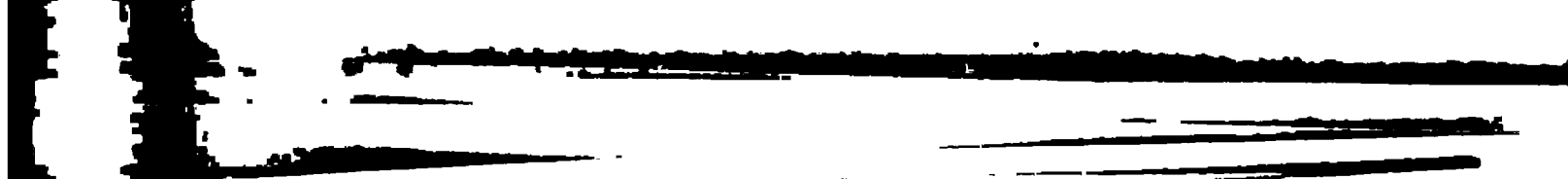
Division Engineer.

NG IS USED



R BATTERED





17.



1871

1

2

3

4

5

6

7

8

9

10

11

12

13

REPORT
OF
J. P. GOODSSELL,
RESIDENT ENGINEER UPON THE EASTERN SUB-DIVISION OF THE EASTERN DIVISION OF THE
NEW-YORK STATE CANALS.

REPORT.

RESIDENT ENGINEER'S OFFICE,
Albany, December 31st, 1851. }

C. A. OLMSTED, Esq.,
Division engineer.

I herewith submit you a statement of the condition of the Eastern sub-division of the Eastern Division of the New-York State canals.

This sub-division embraces portions each of the Erie and Champlain canals.

ERIE CANAL.

From the city of Albany to the head of lock No. 39, in the village of Rockton, including the upper and lower side cuts at West-Troy and the Albany Basin, a distance of 88.75 miles.

The principal structures embraced upon this line are

- 43 Lift locks.
- 2 Weigh locks.
- 15 Aqueducts,
- 60 Road bridges.
- 81 Farm bridges.
- 52 Culverts.
- 6 Waste weirs.

The locks are all doubled and enlarged except Nos. 2, 24, 32, 34, 38 and 39, which have each one enlarged and one old lock.

The side cut locks at West-Troy are all single and enlarged.

The weigh locks each at Albany and West-Troy, are enlarged and furnished with a Fairbank's & Co., scales with capacity of

400 tons. The one at West-Troy was completed and brought into use soon after the opening of navigation, 1851.

The aqueducts yet remaining to be reconstructed and enlarged are

Printup's.

Olstona.

Lasher's.

The San Sai kill and Phillips are nearly completed.

Of the road bridges 48 are built upon the enlarged plan, and 2 now in process of construction.

The farm bridges are 46 old, 34 new and 1 on section 39, now being erected.

The culverts 52 in number are all enlarged and completed except 11, located on sections 16, 17, 30, 33, 34, 35, 40, 59, 60 and 75.

Two waste weirs yet remain to be built on the enlarged plan on sections 30 and 56.

There is 51.75 miles enlarged and completed canal, 9.21 miles mostly completed, 3 miles now in process of construction and 24.79 miles of old canal, making in all 88.75 miles.

The feeders with the guard locks connected at Rockton, and the upper Mohawk aqueduct have been enlarged and completed.

The contracts for section No. 29, 39 and 48, and for road and ferry bridges on section 39, also, for the San Sai kill aqueduct and bridges on sections 27 and 28 are now in progress.

A large number of contracts have been completed during the past year.

For the particular state of the old canal and structures connected, together with the reason for the speedy completion of the canal I refer you to my report of last year.

The engineering corps have been variously and busily employed during the past year. Annexed is a table of the expenditures

upon this sub-division for engineering, from January 1, 1851, to January 1, 1852.

Among the duties performed by the engineers may be enumerated :

The survey and location of the three different projects for a feeder in the vicinity of Fort Plain, as shown by the annexed maps. A detail calculation for all work embraced on this sub-division of work to be let under chap. 384, Laws of 1851, with duplicate maps and plans for the same; the various maps of permanent appropriation for the Canal Appraisers, the settlement of a number of final accounts, the superintendence of the construction of combined locks at Whitehall, and Becker's lock of the Champlain canal, besides the charge of work in progress in the enlargement of the Erie canal, the transcribing of final accounts for work done previous to suspension in 1842, into large volumes to be filed in the Canal Commissioners' office, and various other duties incident to the peculiar situation of the office in this city.

Herewith is submitted a map, showing the three different projects for erecting a new auxiliary feeder intermediate, the Little Falls and Schoharie creek. The computations pertaining thereto are not yet completed, but will be submitted to you in an additional report during the present winter.

There have been prepared accurate drawings of one of the new enlarged locks, aqueducts, road and farm bridge superstructures, also cross sections of the enlarged canal, showing the slope walls, the manner of docking where docking is used, and vertical or battered walls where such are to be constructed through cities and villages. In juxtaposition to each of the above named drawings, sections, &c. the plans of the old structures and form of old canal are so placed that an accurate comparison can be made of the dimensions and character of each.

The completion of that portion of section No. 32, from the foot of lock No. 23 to section No. 31, by the opening of navigation the coming spring would be a great relief to navigation, and should be done.

If a portion of the rock excavation on section No. 84, on the berme bank of the canal immediately west of "Fink's grocery" can be removed before the opening, the facilities of navigation at this point would be greatly benefited.

The berme abutments to several bridges should be raised above surface of water before commencement of navigation, in order that the bridges may be completed during the summer.

There has been one engineer's office discontinued and three new ones created since my last report. The one at West Troy was discontinued in consequence of the completion of the work in that vicinity. The new ones are located, each at lower Mohawk aqueduct, Fultonville and St. Johnsville. There are now five engineer offices, upon this residency, exclusive of the Albany office, located at lower Mohawk aqueduct, Schenectady, Amsterdam, Fultonville and St. Johnsville. There is also one office at Whitehall with a 2d assistant engineer, employed in the construction of the locks upon the Champlain canal.

The points at which the above offices are located seem to be the most favorable for the interest of the work, and a due regard for the convenience of the contractors and those having immediate charge of its construction.

Very respectfully yours,

J. P. GOODSSELL,
Resident Engineer.

Tabular statement, showing the length and estimated cost of work now under contract, and the amount done, and remaining to be done at contract prices, on the Eastern sub-division of the Eastern division of the New-York State canals, up to December 31st, 1851.

		Estimated cost at con- tract prices.	Amount done at contract prices.	Remain- ing to be done at contract prices.
Kind of Work.	Name of contractor.			
Weigh lock at West Troy,	Murray and Glancy,..	\$30,340 00	\$29,840 00	\$500 00
do house at				
West Troy,.....	E. Murray,.....	11,880 00	11,270 00	610 00
Section No. 27½,.....	Henry M. Crane,..	8,272 00	6,750 00	1,522 00
do 28½,.....	Van Voorst & Barhydt,	20,606 00	20,052 00	554 00
do 29,.....	N. Van Debogart & Co.,	25,570 00	19,570 00	6,000 00
do 39,.....	J. S. M. Barhydt & Co,	13,830 00	9,300 00	4,530 00
do 48,.....	W. S. Shuler & Co.,..	36,536 00	18,520 00	18,016 00
Culvert at Fultonville,....	David Wiles,.....	10,550 00	10,275 00	275 00
Bridges on sec. 27 and 28,.	J. I. Yates,.....	10,880 00	10,080 00	800 00
do do 39,.....	T. Reynolds,.....	3,650 00	2,320 00	1,330 00
do do 66,.....	Watson and Burton,...	2,880 00	2,780 00	100 00
do do 81,.....	John Sholl,.....	3,340 00	1,960 00	1,380 00
San Saikill aqueduct,.....	J. C. Smith,.....	23,650 00	17,650 00	6,000 00
Castle Creek, do.	W. H. Williams,.....	24,248 00	24,210 00	38 00
		<u>\$226,232 00</u>	<u>\$184,577 00</u>	<u>41,655 00</u>

Amount brought forward,		\$226,232 00	\$184,577 00	\$41,655 00
Section No. 13, (completion,)...		3,172 00	.....	3,172 00
do 14,.....	98 chains,	4,696 00	.....	4,696 00
do 15,.....	80 do	14,939 00	.....	14,939 00
do 16,.....	80 do	26,715 00	.....	26,715 00
do 17,.....	80 do	18,806 00	.....	18,806 00
do 18,.....	80 do	13,422 00	.....	13,422 00
do 19,.....	35 do	3,774 00	.....	3,774 00
do 30,.....	80 do	28,813 00	.....	28,813 00
do 31,.....	80 do	20,825 00	.....	20,825 00
do 32,.....	80 do	15,383 00	.....	15,383 00
do 33,.....	80 do	31,743 00	.....	31,743 00
do 34,.....	80 do	5,101 00	.....	5,101 00
do 35,.....	80 do	14,024 00	.....	14,024 00
do 36,.....	64 do	13,283 00	.....	13,283 00
do 37,.....	78 do	18,226 00	.....	18,226 00
do 40,.....	54 do	8,995 00	.....	8,995 00
do 41 to 45, incl. completion of		22,356 00	.....	22,356 00
do 51 to 56 do do do		17,676 00	.....	17,676 00
do 57,.....	100 do	17,425 00	.....	17,425 00
do 58,.....	118 do	33,639 00	.....	33,639 00
do 59,.....	109 do	27,138 00	.....	27,138 00
do 60,.....	109 do	41,259 00	.....	41,259 00
do 61,.....	109 do	18,257 00	.....	18,257 00
do 62,.....	109 do	55,243 00	.....	55,243 00
Amount carried forward,		\$	\$	\$

Kind of work.		Estimated cost at con- tract prices.	Amount done at contract prices.	Remain- ing to be done at contract prices.
Amount brought forward,		\$	\$	\$
Section No. 75,	93 chains,	18,766 00	.....	18,766 00
do 78,	100 do	23,244 00	.....	23,244 00
do 83,	48 do	13,649 00	.....	13,649 00
do 84, (completion,)		4,693 00	.....	4,693 00
Lock No. 2,	1 do	23,136 86	.....	23,136 86
do 24,	1 do	23,060 81	.....	23,060 81
do 32,	1 do	26,695 81	.....	26,695 81
do 34,	1 do	21,804 50	.....	21,804 50
do 38,	1 do	26,482 50	.....	26,482 50
do 39,	1 do	31,364 50	.....	31,364 50
Phillips' aqueduct,	1 do	5,207 51	.....	5,207 51
Printup's do	1 do	21,219 08	.....	21,219 08
Olstona do	1 do	18,870 79	.....	18,870 79
Lasher's do	1 do	15,418 57	.....	15,418 57
Waste-wier on section 30,	1 do	4,251 55	.....	4,251 55
do do 56,	1 do	3,815 30	.....	3,815 30
Culvert on section 16,	1 do	1,829 74	.....	1,829 74
do do 17,	1 do	1,286 46	.....	1,286 46
do do 30,	1 do	3,278 70	.....	3,278 70
do do 33, 34 and 35, ...	3 do	5,488 50	.....	5,488 50
do do 40,	2 do	5,767 70	.....	5,767 70
do do 59,	1 do	2,064 60	.....	2,064 60
do do 60,	1 do	2,070 60	.....	2,070 60
do do 75,	1 do	2,577 10	.....	2,577 10
Road bridge abutments on sec. 56,	2 do	3,006 00	.....	3,006 00
do do do 15 & 18,	2 do	2,697 18	.....	2,697 18
do do do 77,	2 do	2,353 63	.....	2,353 63
Bridge abutments on sec. 13, 31, 83,	3 do	3,701 81	.....	3,701 81
Farm bridge abut. on sec. 15, and all on 19,	2 do	2,636 58	.....	2,636 58
Farm bridge abut. sec. 26, 60, 61, 62 and all abut. sec. 78 to 84 incl.,	11 do	11,076 48	.....	11,076 48
Farm bridge abut. on sec. 16 and 17,	4 do	3,846 84	.....	3,846 84
do & R. do do 32, 35, 36, 37,	7 do	7,165 66	.....	7,165 66
do do do 46 to 56 incl,	8 do	8,540 24	.....	8,540 24
do do do 57, 58, 59, ...	6 do	5,656 68	.....	5,656 68
do do Spraker's to Fort Plain,	4 do	3,372 04	.....	3,372 04
Bridge abut. on sec. 44, 45, 75, 76,	5 do	4,962 65	.....	4,962 65
Iron bridge superstructure on sec- tions No. 13 to 84 inclusive,	54 do	54,405 00	.....	54,405 00
Valve gates for locks No. 2, 24, 32, 34, 38 and 39,	6 do	3,147 73	.....	3,147 73
Raising banks Champlain canal, ...	1 44-100 miles	4,386 00	.....	4,386 00
All wooden superstructure of bridges on eastern sub-division of the eastern division,	3 chains,	1,944 00	.....	1,944 00
		<u>\$1,127,072 69</u>	<u>\$184,577 00</u>	<u>\$942,495 69</u>

TABULAR STATEMENT

Of engineering expenses for the year 1851, on the eastern sub-division of the New-York State canals.

Names.	Rank or station.	No. of days employed.	Price per year.	Amount.	Total.
J. P. Goodsell,	Resident engineer,	313	\$1,500 00	\$1,500 00	
"	Travel, .....	...	....	481 80	
"	Extra service canvassing propositions, .....	...	....	70 00	
Geo. E. Gray,	1st assistant,	313	\$3 50	1,095 50	
"	Allowance by C. Board, .....	...	....	76 00	
"	Extra labor canvassing propositions, .....	...	....	45 00	
F. A. Utter,	1st assistant,	313	3 50	1,095 00	
"	Extra service canvassing proposition, .....	...	....	60 00	
J. W. Murphy,	2nd assistant,	313	2 50	782 50	
"	Travel, .....	...	....	45 75	
"	Extra service canvassing proposition, .....	...	....	29 10	
Thomas Goodsell, Jr.,	2nd assistant,	313	2 50	782 50	
"	Allowance for travel, .....	...	....	17 50	
"	Extra service canvassing proposition, .....	...	....	54 62	
Charles H. Beach, ..	2nd assistant,	313	2 50	785 00	
" ..	Allowance by Canal Board, .....	...	....	67 36	
James Green,	2nd assistant,	106	2 50	265 00	
" .....	.....	207	2 00	414 00	
Ogden Edwards, .....	.....	27	2 50	67 50	
" .....	.....	50	2 50	125 00	
"	Assistant,	236	2 50	590 00	
"	Allowance for travel, .....	...	....	5 50	

Names.	Rank or station.	No. of days employed.	Price per day.	Amount.	Total.
David Vaughan, . . .	Draughtman,	289	\$2 50	\$722 50	
"	Extra service canvassing proposition,	..	..	76 00	
William Pitt,	Draughtman,	96	2 50	240 00	
"	"	49	3 00	147 00	
Samuel McElroy, . . .	"	34	2 50	85 00	
A. M. Peek,	"	77	2 25	173 25	
"	"	79	2 50	197 50	
"	Clerk,	157	2 25	353 25	
"	Extra service during canvass, . . . . .	..	..	78 10	
Joel Gray, Jr.,	Draughtman,	61	2 00	122 00	
"	"	42	2 25	94 50	
"	Leveller,	79	2 00	158 00	
Joseph L. Harris, . . .	Draughtman,	27	2 25	58 50	
"	"	79	2 50	197 50	
"	Extra service canvassing proposition,	..	..	64 00	
W. B. Cooper,	Leveller,	27	2 00	54 00	
"	Rodman,	177	1 50	265 50	
"	Extra, canvassing proposition, . . . . .	..	..	76 00	
A. Remenyi,	Leveller,	27	2 00	54 00	
"	Extra canvassing proposition, . . . . .	..	..	28 00,	
Luke Usher,	Surveyor,	27	2 00	54 00	
"	Rodman,	111	1 50	166 50	
A. P. Ten Broeck, . .	Clerk,	100	2 00	200 00	
W. W. Wight,	"	123	2 00	246 00	
"	Extra, canvassing proposition, . . . . .	..	..	32 00	
M. C. Fremyre,	Clerk,	7	2 00	1400e	

"	"	15	2 50	37 50
Edward Marcy,.....	"	52	1 25	65 00
"	Extra service canvassing proposition,	...	....	76 00
E. H. Noyes,.....	Clerk,.....	26	1 25	32 50
"	Extra service, canvassing proposition,	...	....	58 00
Waldo Abeel,.....	Clerk,.....	26	2 00	52 00
P. E. Sickler,.....	"	29	2 00	58 00
"	Extra service canvassing proposition,	...	....	64 00
J. W. Bradshaw,....	Clerk,.....	37	1 50	55 50
B. W. Sommars,....	"	54	1 50	81 00
L. B. Martin,.....	Clerk,.....	79	1 50	118 50
"	Tapeman,.....	90	1 25	112 50
J. W. Cady, Jr.,....	Rodman,.....	313	1 50	469 50
"	Extra service canvassing proposition,	...	....	29 00
D. Deforest, Jr.,....	Rodman,....	263	1 50	394 50
"	Axeman,.....	50	1 25	62 50
E. H. Ball,.....	Rodman,.....	106	1 50	159 00
"	Chainman,.....	207	1 25	258 75
E. S. Merriam,.....	Rodman,.....	7½	1 50	11 25
J. A. Watkins,.....	"	40	1 50	60 00
H. N. Park,.....	"	8½	1 50	12 75
J. A. Tyler,.....	"	8	1 50	12 00
Thomas W. Spencer,.	"	75	1 50	112 50
"	Extra service canvassing proposition,	...	....	22 00
Henry J. Bushnell,..	Rodman,.....	67	1 50	100 50
"	Tapeman,.....	35	1 25	43 75
Joseph Steel,.....	Rodman,.....	55	1 50	83 50

Names.	Rank or station.	No. of days employed.	Price per day.	Amount.	Total.
Duncan McNaughton,	Chainman,	35	1 25	43 75	
O. M. Sanders,.....	"	55	1 25	68 75	
M. M. Francis,	"	39	1 25	48 75	
"	Extra during canvassing proposition,	...	....	76 00	
John M. Keith,.....	Chainman,	33	1 12½	37 13	
J. A. Becker,.....	"	158	1 00	158 00	
Bradford Scouton,...	" and axeman,	313	1 25	391 25	
David Eggabroadt,...	Axeman,	19	1 25	23 75	
C. Moessner,.....	" and guide,	1	1 50	1 50	
E. Moody,.....	"	1	1 50	1 50	
David Haggart,....	"	12	1 25	15 00	
Christian Parsch,...	"	14	1 87½	26 25	
Henry W. Manning,	Axeman,	32	1 00	32 00	
Richard A. North,...	"	17	1 00	17 00	
Henry Hose, Jr.,...	"	27	1 00	27 00	
F. E. Peek,.....	"	33	1 00	33 00	
Jno. Wiley,.....	"	38	1 25	47 50	
John O'Hara,.....	Inspector,	273	2 00	546 00	
Benjamin Bradley,...	"	310	2 00	620 00	
James Cashin,.....	"	258	2 00	516 00	
John Van Demark,...	"	213	2 00	626 00	
"	Travel,	...	....	10 30	
John Hitchcock,....	Inspector of dredging,	217	3 00	651 00	
"	"	6	2 00	12 00	
A. C. Piercy,.....	"	177	3 00	531 00	
"	Inspector,	17	2 00	34 00	

Samuel Lewis,.....	"	171	2 00	342 00
Joseph Royer,.....	"	99	2 00	198 00
D. G. Mallery,.....	"	69	2 00	138 00
Joseph Goodale,....	"	66	2 00	132 00
<hr/>				
Cutting and setting monuments and digging test pits,.....				\$445 40
Extra service during canvass of propositions,.....				232 50
Watching banks of new canal,.....				31 25
Office rent,.....				243 27
Stationery,.....				679 44
Postage and telegraph,.....				123 24
Fuel,.....				84 20
Light,.....				289 60
Miscellaneous,.....				777 96
<hr/>				
				2,906 86
				<hr/>
				\$23,364 82
				<hr/>
				\$20,457 96



REPORT
OF
DANIEL C. JENNE,
RESIDENT ENGINEER ON THE WESTERN SUB-DIVISION
OF THE EASTERN DIVISION OF THE
NEW-YORK STATE CANALS.



1854
of
it

der contract to be completed in April 1854.

REPORT.

CHARLES A. OLMSTED, Esq.,
Division Engineer.

Sir: I herewith present the annual report relative to the western sub-division of the eastern division of the enlargement of Erie canal and the Black River canal.

ENLARGEMENT OF THE ERIE CANAL.

This sub-division extends from the head of lock No. 39, in the village of Rockton, to the east bank of the Oneida lake canal, at Higginsville, a distance of 47.21 miles as the enlargement is located, embracing sections Nos. 87 to 134 inclusive.

SECTIONS.

All the sections have been completed and brought into use from 87 to 110. Section 111 is about one half finished and in use, the balance to be completed before the opening of navigation. Section No. 112 has about 10 chains nearly finished and in use; the contract for this section was declared abandoned on the 2nd, of October last, by the Canal Commissioner in charge, and the work re-let December 30th, 1851. The section east of Sauquoit aqueduct, and sections Nos. 113, 114, 115, 116 and at New London are brought into use, although not completed. A short section of 16 chains, at Fort Bull culvert, has been enlarged and brought into use.

There have been in use during the past year, 30.93 miles of enlarged canal, 1.98 miles of which are not yet entirely finished. There are yet 16.28 miles to be enlarged, all of which is now under contract to be completed in April 1854.

LOCKS.

There are seven locks located on this sub-division, viz: No. 40 to 46, inclusive. Nos. 40 to 42 have one enlarged lock and one old lock by the side in use; Nos. 43 to 45 are double enlarged locks in use; No. 46 are double enlarged locks of 3 feet lift, one of which has been brought into use, as a lift-lock, by putting in the gates during the past season, while the other has been used to pass the water to supply the canal below. The navigation west of these locks has been materially improved during the past season by bringing this lock into use, although the lift has been only about one foot.

WEIGH-LOCKS.

There is one weigh-lock, of enlarged size, with a good substantial weigh-lock house connected, in use and in good order.

AQUEDUCTS.

There are seven enlarged aqueducts, all of which have been brought into use, the one at Oriskany having been completed last spring.

CULVERTS.

There are now 28 culverts, of the enlarged size, in use, three of which were brought into use last spring; there are 16 culverts yet to build for the enlarged canal. The number has been reduced 8 by changing the plan from what was contemplated in the last annual report.

BRIDGES.

The number of bridges completed, of the enlarged size and in use, is 29 road bridges, 13 farm bridges, 1 tow-path and 3 foot bridges. There are to be built 10 road and street bridges, 19 farm bridges for canal, and one road and one tow-path bridge for feeder.

The farm bridges have been located with due reference to the interest of the State and the convenience of the farms, and several which were contemplated last year have been dispensed with. A commutation has been made by the Canal Commissioner in one case, which applies to two farms and the location of several bridges will open claims for damages which must be settled by

the Commissioners or Canal Appraisers, but it is presumed that this can be done at a much less expense than the cost of the bridges.

WASTE WEIRS.

There are four enlarged waste weirs built and three remaining to be built.

FEEDER DAM AND BULK HEAD.

There is a dam to be constructed across the Mohawk river, near Rome, and a bulk head and feeder connected therewith. The old dam, feeder and bulk head now in use, are not of sufficient capacity for the enlarged canal. A plan has been adopted and the location made for a new dam, feeder and bulk head about half a mile above the location of the old dam.

The work above specified as yet to be done, is all under contract, to be completed by the 1st day of April, 1854.

A receiver has been constructed on the berm bank of the canal, about one mile east of Rome, to receive the flood waters of Whital creek. The object of this improvement was fully explained in the last annual report of the State Engineer and Surveyor at pages 75 and 76.

The waste weir, two miles east of this point has been repaired and put in good shape for passing off the water received at Whital creek in time of flood. The plan thus far has operated as anticipated and with proper care on the part of the superintendent it is believed will answer the purpose designed.

The services of the Engineer Department for the year 1851, have been as follows, viz :

Superintendence of work in progress under contract has been nine sections, one aqueduct, putting in gates to lock No. 46, three bridges and two culverts. Measurements and computations necessary for the monthly estimates on said work together with the entry in books, affidavits and copies of estimated quantities, required at the different departments at Albany.

Final accounts have been made for the settlement of five contracts.

The surveys, maps, plans and estimates for the location of 15 5.100 miles of canal, and the plans and estimates for the location of three single locks, ten road bridges, nineteen farm bridges, sixteen culverts, three waste wiers, one dam, feeder and bulk head, with one road and one tow path bridge connected with the feeder, have been made. Also, the maps and plans for exhibition at letting for the same work, including all the necessary papers, canvassing propositions and making out contracts (twenty-eight in number, of three copies each,) for the above work which was let at Albany, Dec. 30th, 1851.

The following tabular statements are annexed :

No. 1.—Shows the cost of work on contracts completed, giving the total of the different kind of structure.

No. 2.—Shows the estimated cost at contract prices of work under contract prior to Dec. 30th, 1851, amount done and to be done.

No. 3.—Shows the estimated cost, at contract prices, of work let December 30th, and also, the cost at engineers, estimates.

No. 4.—Statement of the expenses of engineer department for the year 1851, which amounts to \$10,409.96.

From the statements referred to it may be seen that the estimated cost of the completion of this subdivision of work to be done subsequent to April, 1847, is \$1,163,024.63, of which there has been work done to the amount of \$520,679.93 and leaves remaining to be done, not including land damages yet to be paid, the sum of \$642,344.70.

This estimated cost compared with that of 1851 is as follows :

Total cost as per estimate 1851,.....	\$1,245,906 26
Total cost as per present estimate,.....	1,163,024 63
	<hr/>
	82,881 63

Deduct for land damages estimated last year, less the amount paid in 1851,.....	37,805 55
Difference in cost in favor of present estimate,....	<u>\$48,576 08</u>

BLACK RIVER CANAL.

The canal proper is $35\frac{1}{2}$ miles in length, extending from the Erie canal at Rome to the Black river at High falls. The improvement of the river extends from High falls to Carthage, a distance of $42\frac{1}{2}$ miles. Black river feeder is 10.29 miles in length, to which should be added 2 miles of reservoir. Delta feeder will be 1.38 miles long, to which may be added 1 mile of navigation in the Mohawk river above the feeder. There will be $2\frac{1}{2}$ miles of navigation in Moose and Black rivers above the High falls, and it is thought that Beaver river, which enters Black river about 10 miles above Carthage, may be navigable for five miles. The total navigation when the whole work is completed will be about 100 miles.

SECTIONS.

Sections Nos. 24, 26, 27, 28, and also 29, as far as to lock No. 95, have been completed during the past year. Sections Nos. 23 and 25 are nearly done. Sections Nos. 30 and 31 are in progress and have a small amount of work done. The canal from and including lock No. 71, at Boonville, commencing with section No. 23, and extending to lock No. 95, on section No. 29, near Port Leyden was brought into use in October last. The balance of about 3 miles, from this point to the river below the *High falls*, it is believed will be completed so as to be brought into use in the spring of 1853.

LOCKS.

There are 94 lift locks completed and in use, 24 of which were brought into use in October last; four more were nearly completed in 1842, and 11 are now in the progress of construction, making in all 109 lift locks.

There is also one guard lock at the head of the Black River feeder, completed and in use, and one to be built at the head of

the Delta feeder, which is now under contract. Of the 94 locks finished, only 37 have sluices built around them for passing the water. The sluices for the other 37, viz: from No. 34 to No. 70 inclusive are yet to be built and are under contract.

AQUEDUCTS.

There are five aqueducts finished and in use. The one at Sugar river has been completed and brought into use the past year.

BRIDGES.

There are 63 bridges completed and in use on the canal and Black River feeder, 17 of which have been built during the past year. There are 8 yet to build on the canal and four on the Delta feeder.

DRAW BRIDGES.

The number of drawbridges located on the Black river is two. The abutments, &c., were completed in 1850, and the draws have been built during the past year.

CULVERTS.

There are 17 culverts finished and in use; two of them have been built during the last season; there is one to be built for the canal and two for the Delta feeder.

WASTE WEIRS.

There have been eight wasteweirs built on the canal and four on the Black River feeder. One on the feeder has been dispensed with in consequence of a break in the towpath having occurred near it. One on the canal was built within the last year.

LOCK-HOUSES.

The canal will require 33 lock-houses when completed, 19 of which are built and the balance are under contract, to be completed by the first of September next.

DAMS.

A dam is located to be built across the Black river a short distance above the High falls. This dam will set the water back about 1½ miles on both Black and Moose rivers, the junction of

the two rivers being about 40 rods above the location of the dam. About three-fourths of a mile above the falls the canal enters the Black river and follows the same for a distance of 45 chains; it then diverges from the river about 16 chains above the dam, passes around the falls and enters the river again at 52 chains below, by descending 70 feet distributed in seven locks.

The object of this dam was explained in the last annual report of the State Engineer and Surveyor, pages 83 and 84.

A dam is also located to be built across Black river at the village of Carthage at about midway between the bridge and the old dam near the upper end of the large island on west side of river. The object of this dam is to control the water for purposes of navigation.

A plan has been adopted of raising the abutments and embankments of dam across Black river at head of feeder (at Williamsville) two feet, the object of which is to avoid the contingency of having the security of the dam affected by the occurrence of another high flood similar to the one in the spring of 1850.

The work on the above mentioned dams was put under contract December 30th, 1851.

IMPROVEMENT OF BLACK RIVER.

In the last annual report of the State Engineer and Surveyor, three prominent plans were spoken of as having been proposed, one of which would undoubtedly be adopted. The first was by jettee dams and piers. The second was by constructing a dam across the river in the vicinity of Otter or Independence creeks, and cutting a canal across a large bend in the river, and locking in to the river below from that point, to improve by jetties and piers. The third plan was to build reservoirs on the head waters of Moose river, and increase the quantity of water in the dry season of the year, by drawing from said reservoirs, and thus keep up navigation.

All the different plans have been under consideration, surveys and examinations made for each, and the plan of improvement by

•

jettees and piers has been adopted by the Canal Board, and put under contract.

The estimates which were made last year contained in last annual report, were based upon a former survey of the river. A new survey has been made during the past summer, the result of which has shown that the bars have materially increased in length since the previous survey, and this has very much increased the expense of the improvement of the river. The amount of the former estimate was 84,000. The cost of the work at contract prices, as let Dec. 30th, 1851, is 128,923, which is \$24,266 below the engineer's estimate, presented to the Canal Board at the time the plan was adopted.

The examinations of the river which have been made the past season, compared with those formerly made, show conclusively that the bed of the river is constantly changing, and that although the estimated quantities of materials used at letting have been liberally made, yet the cost of the work may be eventually materially increased in consequence of the changes above-mentioned.

In view of the third proposition mentioned above for the improvement of Black river, surveys were made during the winter of 1851, of the lakes on the middle branch of Moose river, which takes its rise in Hamilton county, near the head of Racquette lake.

There are eight lakes, most of them of considerable size, and located within about 18 miles, extreme points. By building a dam at what is called the "Old Forge Dam," of about 16 feet in height, or 8 feet above the old dam, the water would set back over 5 of said lakes. These five lakes embrace an area of 2,762 acres, which would be increased by the dam to 3,481 acres, affording a reserve of about 800,000,000 cubic feet of water.

The outlet of these lakes can probably be excavated so as to draw down the lakes and increase the quantity of water to 1,000,000,000 cubic feet.

Dams can also be built at the foot of the 6th and 8th lakes, to raise the water 10 or 20 feet if necessary, so that a large portion

of the water which flows from these lakes, can be held in reserve at a moderate expense for any purpose which may be necessary, connected with the canal or river.

RESERVOIRS.

Extensive surveys have been made during the past year for the purpose of locating reservoirs on the head waters of Black river.

The Black river at about one mile above the point where the feeder for canal is taken out is formed by two branches, one called the Woodhull and the other the Black river; the Woodhull has its source from Woodhull lake located about 20 miles above. The Black river has its source from several lakes located from 20 to 30 miles above the feeder.

The examinations have shown that reservoirs can be constructed by damming up the outlet of many of said lakes.

Surveys have been completed and maps and plans adopted by the Canal Board for 4 reservoirs located in this region. One on the Woodhull, one on the North Branch lake, one on the South Branch lake, and another on a marsh a short distance below the one last mentioned.

Their dimensions and capacities are as follows, viz:

Woodhull,	1,343 acres	1,012,452,240 cubic feet.
North Branch,	423 "	309,934,400 "
South "	517.7 "	421,190,000 "
Marsh,	260 "	204,732,000 "

Total, 1,948,308,640

It is supposed that the North Branch reservoir can be filled twice during the year, and the water used for the purpose designed, by proper care in closing the gates in times of heavy rains, as the quantity of water flowing from the lake at all times is large, and that the reservoir will be but a short time in filling with the gates closed. Care should be taken also in closing the gates of the other reservoirs, under similar circumstances, and it is believed that by being thus careful, the quantity of water may be increased to 2,500,000,000 cubic feet, to be used during the dry season when it is required.

To obtain a supply of water equal to 16,000 cubic feet per minute for 110 days, it will require 2,534,400,000 cubic feet. This will give the quantity originally estimated as the supply to be obtained from the Black river for the Black River and Erie canals. In this manner the Black river is left with its original quantity of water during the dry season and the feeder supplied entirely from reservoirs.

If in the end it should prove that the quantity of water obtained should fall short of a sufficient quantity for the purposes designed, there are other lakes on the Woodhull and the Black river of smaller size than those proposed to be used, on which reservoirs can be constructed at a proportionate expense to the others.

Examinations were made for another reservoir on the Levin Lake Branch, but the lateness of the season and the heavy fall of snow prevented the completion of the necessary surveys in order to show what capacity of reservoirs could be obtained.

In the last annual report only one reservoir was contemplated, viz: the Woodhull, which was estimated to cost \$5,500. The dimensions of this have been increased from what was proposed in the last estimate, which has increased the cost as compared with the contract made for the work, \$2,569. The whole cost of the 4 reservoirs estimated at contract prices is \$43,635.

The services of the engineer department for the year 1851 have been as follows, viz:

The superintendence of the construction of 8 sections, 11 new locks, finishing of 20 old locks and the sluices connected, 1 aqueduct, 3 road and 14 farm bridges, 2 culverts, 1 waste weir superstructure of 2 draw-bridges, and the sluices for 33 locks.

Final accounts have been made for the settlement of 20 contracts, including the necessary calculations.

Surveys have been made for 42½ miles of improvement of Black river, for the Delta feeder, sluices, for 37 locks, dams at High falls and Carthage, and raising the abutments, &c., to dam

at Williamsville, and for reservoirs at the head waters of Black and Moose rivers.

The surveys for reservoirs on Black river embrace about 100 miles of line explored with level and compass entirely in an unimproved country, mostly along the margin of lakes generally covered with a thick growth of underbrush. The surveys on the Moose river have extended over about 69 miles of line explored instrumentally, and were extended and connected with the inlet of Racquette lake.

The expense of surveys and making maps of Woodhull and Black River lakes has been about \$3,000, including test pits. That of Moose River lakes has been about \$1,000.

Maps of location have been made for all the work above described, together with plans of the mechanical work and estimates of cost of the whole work, with the exception of the estimates for reservoirs on Moose river. Also the maps, plans and other necessary papers to be exhibited for the letting of the work above described. Propositions were canvassed for the letting of this work and the contracts made out, 17 in number, of 3 copies each.

The following tabular statements are annexed:

No. 5 shows the cost of work on contract completed, giving the total of the different kinds of structures.

No. 6 shows the estimated cost of work under contract prior to Dec. 30th, 1851, amount done and to be done.

No. 7 shows the estimated cost, at contract prices, of work let Dec. 30th, 1851, also estimated cost at engineers' estimates.

No. 8, a statement of the expenditures of the engineer department for the year 1851, which amounts to \$10,900.50.

From the foregoing statements it may be seen that the estimated cost to complete the work to be done on the Black River canal after the resumption in 1847, amounts to the sum of \$993,236.99, of which there has been done \$608,675.51, leaving a balance of work to be done Jan. 1st, 1852, of 384,561.48, exclusive of land damages yet to be paid.

The cost of the work exceeds the amount contained in the last annual report, \$90,790.47, which is mostly caused by the increase of work in the improvement of Black river and the construction of reservoirs, only one of which, (the Woodhull,) was contemplated at that time, and that of a smaller size than the one now adopted to be built at that place.

Respectfully yours,

DANIEL C. JENNE,
Resident Engineer.

RESIDENT ENGINEER'S OFFICE, }
Rome, Dec. 31st, 1851. }

(No. 1.)

Tabular Statement showing the cost of work completed on the western sub-division of the eastern division of the enlargement of the Erie canal, December 31st, 1851, since resumption in 1847.

Kind of work.	No. of miles or structures.	Amounts.	Totals.
Sections,	5 $\frac{7}{8}$	\$122,143 71	
Locks,	6	26,353 20	
Aqueducts,	5	81,000 52	
Culverts,	11	33,074 84	
Bridges,	12	20,587 92	
Valve gates,	6 locks.	4,085 14	
			\$287,245 33
Add work done on contracts not finished,			149,016 64
Miscellaneous, (paid,)		\$25,218 18	
Land damages, (paid,)		41,630 05	
Engineering for years 1850 and 1851,		17,569 73	
			84,417 96
Total work done,			\$520,679 93
Work to be done on contracts as per table			
No. 2,		\$23,640 36	
do do as per table No. 3,		530,309 37	
Engineering estimated at,		30,000 00	
Add 10 per cent. for contingencies, ..		58,395 07	
Total cost of work remaining to be done Jan. 1st, 1852, (not including land damages,)			642,344 70
Total cost of work to be done April, 1847, ..		\$1,163,024 63	

(No. 2.)

Tabular statement of work under contract prior to December 30th, 1851, on the western sub-division of the eastern division of the enlargement of the Erie canal, showing the estimated cost at contract prices, amount done and to be done.

Kind of work.	No. of miles or structures.	Estimated cost.	Amount done.	Amount to be done.
Sections,	6 ⁷ / ₁	\$160,857 00	\$139,126 72	\$21,730 28
Culvert,	1	500 00	338 00	162 00
Bridges,	4	11,300 00	9,551 92	1,748 08
		<u>\$172,657 00</u>	<u>\$149,016 64</u>	<u>\$23,640 36</u>

(No. 3.)

Tabular statement of work let December 30th, 1851, on the western sub-division of the eastern division of the enlargement of the Erie canal, showing the estimated cost at contract prices, and the cost at engineer's estimates.

Kind of work.	No. of miles or structures.	Estimated cost at contract prices.	Engineer's estimate.
Sections,	16 ⁴ / ₅	\$341,457 50	\$370,100 00
Locks,	3	80,442 40	81,200 00
Waste weirs,	3	11,189 50	11,250 00
Culverts,	16	20,744 00	22,806 00
Bridge abutments,	28	38,064 00	40,860 00
do superstructures,	28	25,455 10	23,650 00
Valve-gates,	3 locks,	1,513 87	1,650 00
Dam at Rome,	1	8,040 00	8,500 00
Feeder and bulkhead,	1	3,403 00	3,500 00
		<u>\$530,309 37</u>	<u>\$563,516 00</u>

(No. 4.)

Tabular statement of engineering expenses on the second sub-division of the eastern division of the enlargement of the Erie canal for the year 1851.

Names.	Rank or station.	Time. Days.	Rate or com'p. per year. per day.	Amounts.	Totals.
Daniel C. Jenne, ..	resid't eng'r,	182½	\$1,500	\$750 00	
do ..	do extra,	16	\$2 00	32 00	
Lorrain L. Nichols,	1st assistant,	250	3 50	875 00	
Wm. B. Taylor, ..	do	158	3 50	553 00	
do ..	do extra,	36	2 00	72 00	
do ..	2d assistant,	135	2 50	387 50	
Octave Blanc,	1st do	63	3 50	220 50	
do	do extra,	19	2 00	88 00	
do	dra'ghtsm'n,	114	2 50	285 00	
Hiram K. Joslin, .	2d assistant,	158	2 50	395 00	
do .	do extra,	3	2 00	6 00	
do .	leveller,	78	2 00	156 00	
Thos. H. Bates, ...	2d assistant,	72	2 50	180 00	
Harvey Parks, Jr.	do	79	2 50	197 50	
do ...	do extra,	18	2 00	36 00	
do ...	leveller,	155	1 75	271 25	
do ...	do	79	2 00	158 00	
Job P. Whipple, ..	2d assistant,	79	2 50	197 50	
do ..	leveller,	234	2 00	468 00	
John L. Dodge, ...	do	169	2 00	338 00	
do ...	do extra,	18	2 00	36 00	
Geo. B. Beach, ...	ass't lev'ler,	79	1 75	138 25	
do ...	do extra,	18	2 00	36 00	
do ...	do	79	1 62½	128 38	
do ...	rodman,	154	1 50	231 00	
Geo. M. Barnes, ..	ass't lev'ler,	79	1 75	138 25	
do ..	do extra,	26	2 00	52 00	
do ..	rodman,	234	1 50	351 00	
Jas. E. Willard, ..	rodm'n&cl'k,	142	1 62½	230 26	

Carried forward, \$

Brought forward,				\$
W. B. Peggs,	do ch'n, 171½	1 25	214 38	
W. M. S. Blyley, ..	do do 307½	1 25	384 38	
S. W. Morton, ...	chainman, 18½	1 25	23 13	
Henry L. Perry, ..	do 39	1 25	48 75	
Nor. H. Barton, ..	do 14	1 25	17 50	
Pat. Handwright, ..	do 6	1 25	7 50	
Richard Marcy, ..	do 183	1 25	228 75	
do ..	axeman, 130	1 00	130 00	
John Edy,	do 200	1 00	200 00	
Geo. W. Chase, ..	do 42	1 00	42 00	
James Huntington, ..	axeman, 12	1 25	15 00	
do	do 9	1 00	9 00	
Sundry,	do 68½	1 00	68 50	
David Vaughn, ...	dra'ghtsm'n, 24	3 00	72 00	
Squire Whipple, ..	do 3	4 00	12 00	
John M. Whipple, ..	do 2½	2 00	5 00	
William Segar, ...	do 7	1 50	10 50	
S. W. Barnes,	do & lev'ler, 46	2 00	92 00	
H. S. White,	clerk, 79	1 25	98 75	
			<hr/>	8,636 53
J. C. Shippy,	inspector, 212	2 00	424 00	
John O'Harra,	do 32	2 00	64 00	
Chester Ray,	do 19	2 00	38 00	
			<hr/>	526 00
Total for engineering and insp'rs,				9,162 53
Foreman labor, test pits,	34	1 50	51 00	
Team do do	4	2 50	10 00	
Common do do	434½	1 00	434 25	
			<hr/>	495 25
Total engineering, inspection and test pits,				9,657 78
Office rents,			28 00	
Lights,			22 79	
Fuel,			48 52	
Postage,			56 67	
Telegraph,			16 85	
Express,			30 89	
			<hr/>	
Carried forward,				\$

Brought forward,	\$	
Affidavits,	23	39
Stationery,	137	82
		<hr/> 434 93
Travel of resident engineer,	244	36
“ expenses of others allowed by Canal Board,	54	76
		<hr/> 299 12
Miscellaneous,	18	13
		<hr/> <hr/> \$10,409 96

Amount paid, under a resolution of the Canal Board, to
persons engaged in canvassing propositions at Albany
and included in the above, \$372 76

(No. 5.)

*Tabular statement showing the cost of work on contracts, completed
on the Black River canal, December 31st, 1851.*

Kind of work.	No. of miles or structures.	Amounts.	Totals.
Sections,	24	\$63,793 18	
Locks,	94	284,899 23	
Valve gates,	94 locks,	16,898 42	
Lock irons, .....	..	1,437 88	
Steps and sockets, .....	..	443 25	
Lock houses,	7	2,202 25	
Aqueducts,	5	27,460 48	
Culverts,	7	11,322 29	
Waste-weirs,	8	5,507 29	
Bridges,	63	17,362 87	
Draw bridges,	2	18,173 91	
Dam and bulkhead,	1	1,436 61	
Black River dam,	1	14,180 20	
		<hr/>	465,117 86
Add work done on contracts not finished,			39,220 00
Miscellaneous,		52,209 29	
Engineering,		42,259 87	
Land damages,		6,468 49	
Commutation of farm bridges,		3,400 00	
		<hr/>	104,337 65
Total work done,			<hr/> 608,675 51

Brought forward,.....	\$
Work to be done on contracts made prior to Dec. 30th, 1851, as per table No. 6,.....	\$102,524 75
do do as per table No. 7,	222,076 60
Engineering estimated at,.....	25,000 00
Add 10 per cent. for contingencies,-	34,960 13
Total cost of work remaining to be done Jan. 1st, 1852, (not including land damages,)...	384,561 48
Total cost of work to be done April, 1847,,	<u>\$993,236 99</u>

(No. 6.)

Tabular statement of work under contract, prior to Dec. 30th, 1851, on the Black River canal, showing the estimated cost at contract prices, amount done and to be done.

Kind of work.	No. of miles or structures.	Estimated cost.	Amount done.	Amount to be done.
Sections,	4 $\frac{4}{5}$	\$41,140 95	\$10,038 35	\$31,102 60
Locks,	15	83,326 60	14,617 67	68,708 93
Lock houses,	14	4,852 10	4,172 10	680 00
Bridges,	8	12,425 10	10,391 88	2,033 22
		<u>\$141,744 75</u>	<u>\$39,220 00</u>	<u>\$102,524 75</u>

(No. 7.)

Tabular statement of work let Dec. 30th, 1851, on the Black River canal, showing the estimated cost at contract prices, and the cost at Engineer's estimates.

Kind of work.	No. of miles or structures.	Estimated cost at contract prices.	Engineer's estimate.
Sections,	1.38	9,935 00	10,070 00
Locks and sluices,	1&37	17,044 00	17,630 00
Bridges,	5	1,425 60	1,630 00
Culverts,	3	900 30	1,050 00
Lock houses,	12	4,525 00	3,915 00
Dams,	3	12,859 00	13,400 00
Reservoirs,	4	43,635 50	44,600 00
Improvements of Black river,	42 $\frac{1}{2}$	128,923 00	153,189 00
Valve gates,	16 locks,	2,829 20	3,300 00
		<u>\$222,076 60</u>	<u>\$248,784 00</u>

(No. 8.)

*Tabular statement of engineering expenses on the Black River canal,
for the year 1851.*

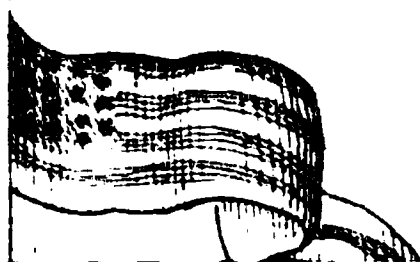
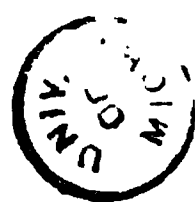
Names.	Rank or Station.	Time. Days.	Rate of comp'n per year.	Amounts.	Total.
Daniel C. Jenne,..	resid't eng'r,	187½	\$1,500	\$750 00	
do	.. do extra,	13	\$2 00	26 00	
Jonathan S. Brown	1st assistant,	324	3 50	1,134 00	
do	.. do extra,	42	2 00	84 00	
John G. Sippell...	do	33	3 50	115 50	
do	.. 2d do	173	2 50	432 50	
do	.. leveler,	77	2 00	154 00	
Thomas H. Bates,..	2d assistant,	77	2 50	192 50	
Ezekiel W. Butler,	do	313	2 50	782 50	
do	.. do extra,	3	2 00	6 00	
William G. Ward,..	do	79	2 50	197 50	
do	... leveller,	234	2 00	468 00	
Miram K. Joslin,..	do	77	2 00	154 00	
Oscar L. Wetmore,	do	155	1 75	271 25	
do	.. do	158	2 00	316 00	
James E. Willard,	assit't level'r	79	1 75	138 25	
do	.. rodm'n & cl'k	92	1 62½	149 50	
Octave Blanc,....	draughtsman	138	2 50	345 00	
Isaac D. Colman,..	surveyor,	292	2 50	730 00	
C. L. Phelps,.....	do	141	2 00	282 00	
P. B. Shultz,.....	rodman,	75	1 25	93 75	
A. V. Hartwell,..	do	132	1 25	165 00	
H. K. Hadley,....	do	4	1 25	5 00	
John Ballou,.....	do	41	1 50	61 50	
George McDonald',	do	23	1 25	28 75	
W. A. Thomas,..	ch'n & rdm'n	108	1 25	135 00	
Daniel S. Jackson,	do	41	1 50	61 50	
Silas Erwin,	do	41	1 50	61 50	
do	.. do	68	1 25	85 00	
Roderick Shaw,..	inspector,	73	2 00	146 00	
Carried forward,				\$	

Brought forward,.....\$

Roderick Shaw,..	axman, chain- man&insp'ct'r	79	1 25	98 75	
Charles O. Grant,.	chainman,	112	1 25	140 00	
Erastus Arnold,..	do	45	1 50	67 50	
do ..	do	92	1 25	115 00	
W. H. Diefendorf,.	do	44	1 25	55 00	
Henry S. Miller,..	flagman,	96	1 00	96 00	
A. T. McDougall,.	axeman,	41	1 50	61 50	
Mathew Gillson,..	do	41	1 50	61 50	
Edwin N. Arnold,.	do	35	1 50	52 50	
Saml. McMichael,.	do	99	1 25	123 75	
Henry Churchill,.	do	74	1 25	92 50	
J. L. Brinkerhoff,.	do	79	1 25	98 75	
H. Schermerhorn .	do	34	1 25	42 50	
Jonas Klock,	do	108	1 25	135 00	
John B. Darrow..	do	21	1 25	26 25	
Solon B. Smith, ..	do	15	1 25	18 75	
David Fort,.....	do	22	1 25	27 50	
Samuel Robey, Jr.,	do	35	1 25	43 75	
Jacob Hilts,	do	15	1 25	18 75	
Barnard Hoy,	do	31	1 25	38 75	
William Hilts, ...	do	32	1 25	40 00	
Theoph. Williams,	do	66	1 00	66 00	
Sundry,	do	32	1 25	40 00	
Do.	do	23½	1 00	23 50	
				<hr/>	9,155 00
Marshall W. Carter, inspector,		27	1 50	40 50	
do do do		89	2 00	178 00	
				<hr/>	218 50
Total for engineering and insp'rs,					<hr/> 9,373 50
Test pits,		18	1 50	27 00	
do		214	1 25	267 50	
do		7	1 00	7 00	
do		60½	87½	53 15	
				<hr/>	354 65
Engineering, inspection, & test pits,.....					<hr/> 9,728 15

Brought forward,	\$	
Office rent,	94	00
Lights,	43	61
Fuel,	39	86
Postage,	15	43
Affidavits,	22	40
Stationery,	54	89
	<hr/>	269 79
Travel of resident engineer,	226	10
“ expenses of others, allowed by Canal Board,	114	00
	<hr/>	340 10
Miscellaneous,		562 46
	<hr/>	\$10,900 50
	<hr/>	
Amount paid under a resolution of the Canal Board to persons engaged in canvassing propositions at Albany, and included in the above,	\$135	00
	<hr/>	

REPORT
OF
JOHN T. CLARK,
DIVISION ENGINEER UPON THE MIDDLE DIVISION OF
THE NEW-YORK STATE CANALS.
DECEMBER 31, 1851.



REPORT

To the State Engineer and Surveyor :

In obedience to law and complying with instructions, I present herewith, statements and estimates, showing the progress of the work of enlargement upon the middle division of the Erie canal ; and the enlarged locks of the Oswego canal ; together with a brief report of the condition of all the canals, and improvements embraced in the said middle division of the New-York State canals ; and a few suggestions in relation thereto.

The middle division is divided into two sub-divisions, the eastern and western. The eastern sub-division embraces the Erie canal from the Oneida lake canal at Higginsville, west to the village of Jordan, (including the Erie-ville reservoir,) the Oswego canal, the Oneida River improvement, and the improvement of the Seneca river at Baldwinsville.

The western sub-division includes the Erie canal from the village of Jordan to the East line of Wayne county ; the Cayuga and Seneca canal, the Crooked Lake canal, the Chemung and Chenango canals.

The length of the several canals and improvements on the two subdivisions are as follows :

	Miles.
Erie canal from Higginsville to the east line of Wayne co.	73
Oswego canal,	38
Oneida Lake canal,	6
Oneida River improvement,.....	20
Improvement of the Seneca river at Baldwinsville,.....	$\frac{1}{2}$
Cayuga and Seneca canal,.....	23
Chemung canal and feeder,	39
Crooked Lake canal,.....	8
Chenango canal,	97
<hr/>	
Total of middle division exclusive of feeders, and 5 miles of Seneca river towing path,.....	304 $\frac{1}{2}$
	<hr/>

Of the 73 miles of Erie canal enlargement on the middle division,

27.88 miles are wholly completed and brought into use.

6.60 miles under contract, and nearly completed, which was brought into use last spring.

2.23 miles under contract, which will be brought into use next spring.

1.82 miles under contract, which will be brought into use in the spring of 1853.

8.79 miles under contract which will expire in the spring of 1852.

25.68 miles put under contract December 30th, 1851, and expire in the fall of 1852 and 1853, and spring of 1853 and 1854; $4\frac{5}{8}$ miles of which was let in June 1850, and reported last year as under contract, but the same was declared abandoned, and relet with other work, in December last.

The amount required to complete contracts which expired on this division in 1850, is,	\$19,202 91
Amount required to complete contracts which expired in 1851, is,	95,151 11
Amount required to complete contracts which expire in 1852, is	316,449 38

Total amount required to complete all work under contract previous to Dec. 30th 1851,	<u>\$430,802 40</u>
---	---------------------

The estimated cost of work put under contract previous to December 1851, on the middle division of the Erie canal enlargement, including 10 per cent on section work, and 5 per cent on a portion of the mechanical structures added to cover contingencies is

The cost of the same at contract prices including

like per centage added for contingencies is ..	1,081,167 19
--	--------------

In my report of January 22d, 1851, the estimated cost of work to complete the enlargement not under contract at that time, is put down at, \$856,996 62

In this sum is included \$35,000, to improve the Orville, Limestone creek and Chittenango feeders, which work has not been put under contract, and therefore should be deducted, 35,000 00

\$821,996 62

At the same time, sections 192, 193, 195, 197 and 199, with the mechanical structures, were under contract, subsequently those sections and some of the structures were abandoned, and the work re-let in connection with the new work, on the 30th Dec.

By instituting a comparison between the estimated cost in the report of 1851, to complete the line of enlargement upon the middle division not then under contract, and the estimated cost of the work on the same division, which was put under contract on the 30th of December last, the difference will be found to be \$249,974.81.

This excess is occasioned chiefly by the abandonment of the five sections before mentioned, which were then under contract, and adding the same to the work advertised for letting on the 18th of November, and contracted for in December.

The *actual* difference between the estimates for the same items of work, is as follows :

Estimate of 1851 as before given,	\$821,996 62
Estimated cost of the same work put under contract	
December 30th,	893,616 46
	<hr/>
Excess,	\$71,619 84
	<hr/>

This increase in the estimate is accounted for as follows :

Increase in the estimated cost of constructing sections 149, 150, and 151, rendered more expensive in consequence of a change of location by the <i>Canal Board</i> ,...	\$32,835 92		
Increase on mechanical structures on the eastern sub-division,.....	3,176 85		
An increase in the <i>quantity</i> of embankment on section 203 and 204, (Cayuga marshes,) to make further provision for settling, (which may and may not take place) and also for a double line of sheet piling for the entire length of marsh on these sections,.....	\$38,238 02		
Less decrease on mechanical structures,.....	2,630 95		
	<u>\$35,607 07</u>	<u>\$71,619 84</u>	

The amount required to complete the enlargement upon the middle division at contract prices is,

For work under existing contracts made previous to Dec. 30th, 1851,.....	\$430,802 40	
For work put under contract on the 30th Dec., 1851, with 10 per cent added for contingencies, ..	1,081,167 19	
Add for improving Orville, Limestone creek and Chittenango feeders, to supply the enlarged canal, which work is not under contract,	35,000 00	
Total amount required at contract prices (with 10 per cent added to cover contingencies) to complete the enlargement of the middle division,..	<u>\$1,546,969 59</u>	

Navigation upon the middle division of the Erie canal, was opened on the 15th day of April, and continued uninterrupted till the close in the fall, with the exception of the usual delays at the Seneca river, which always occur at stages of low water in that stream, and the unavoidable detention in the use of the old Port Byron and Sackett locks.

The navigation on the western portion of the Rome level has been greatly improved the past season by bringing into use about six miles of the enlargement, thus shortening the distance and avoiding several points where delays had almost daily occurred in past seasons.

A full head of water has been maintained on this portion of the canal, by bringing into use for the first time, the Erieville reservoir, the supply from which has provided abundant for the wants of navigation.

The double enlarged locks on this division of the Erie canal are all completed, or nearly so, with the exception of south lock No. 50, at the east end of the Jordan level, which will be finished early in the coming season, and all are in use, except the enlarged locks at west end of the Jordan level, and those at Port Byron.

To obviate the difficulties and delay referred to at the old Port Byron and Sackett locks, it is desirable to bring into use as soon as practicable the enlarged locks. They can be made available before the work of enlargement will be completed across the Cayuga marshes.

The improvements made by a change of level, and crossing the Seneca river by an aqueduct, when completed, dispenses with two locks. All the section work between Jordan and Montezuma may be completed and brought into use in the spring of 1853, and the new locks made available by raising the walls of the river lock one and a half feet, and the towing path of the old canal for about $\frac{1}{4}$ of a mile. Previous to doing this, however, it will be necessary to provide for the junction of the Cayuga and Seneca canal, with the Erie canal.

A thorough system of repairs ought to be established upon all the State canals. But those upon the Erie canal should be commensurate with the progress of enlargement.

ERIEVILLE RESERVOIR.

This reservoir is located in the town of Nelson, Madison county, and is 20 miles from the Erie canal, at the Chittenango feeder.

The water from the reservoir flows first into the Cazenovia lake, and from thence into the Erie canal through the channel of the Chittenango creek and feeder. The flow line of the reservoir embraces about 340 acres, average depth $21\frac{1}{2}$ feet, and its capacity equal to 318,423,600 cubic feet.

The work of repairing and strengthening the banks, mentioned in my report of last year, as being then nearly completed, was finished in due time. The discharge pipes were closed in March, and remained closed until the 16th of August, at that time the water in the reservoir had attained within one foot of the flow line or extreme height. On the 16th the discharge cocks were opened for the first time for the purpose of feeding the canal.

The supply during the dry part of the season has proved abundant for the wants of navigation. But in order that the State may with certainty control the feed from the reservoir; it is important that the water should be prevented from entering the lake as it now does. This can easily be accomplished, and at a small expense, by conveying the water in a small canal for a short distance along the shore of the lake, and extending the same around the south end of the first dam at the outlet of said lake. The water will then discharge into the Chittenango creek, and have free course to the Chittenango feeder.

At the latter place the control can be made effectual, in the arrangement that must be made for improving the feeder so as to supply the canal with 7 feet depth of water on the Rome level.

For the details of the foregoing statement and aggregates contained in this report in reference to the Erie canal enlargement,

I submit the following tabular statements, numberd 1, 2, 3, 4 and 5. Showing separately the length and estimated cost at contract prices, of work now under contract upon the eastern and western sub-divisions of the middle division of the Erie canal enlargement previous to December 30th, 1851, the amount of work done thereon and remaining to be done at contract prices; also the amount of work put under contract completed, and cancelled since January 1847, on the eastern sub-division of said middle division; also tabular statements, showing the work put under contract on the 30th December, 1851, the names of persons contracting therefor, the estimated cost of the same, and the cost at contract prices, on the respective sub-divisions.

(No. 1.)

STATEMENT

Showing the length and estimated cost at contract prices of work under contract upon the Eastern sub-division of the middle division of the enlargement of the Erie canal, previous to December 30th, 1851, the amount of work done thereon, and remaining to be done at contract prices.

KIND OF WORK.		Length in miles, and No. of structure.	Estimated cost at contract prices.	Amount done at contract prices.	Amount remaining to be done at contract prices.
Section No. 152,	.....	1.31	\$28,867 30	\$20,180 00	\$8,687 30
do 153,	.....	0.98	19,743 50	13,640 00	6,103 50
do 154,	.....	1.05	29,827 00	21,310 00	8,517 00
do 155,	.....	1.01	23,279 40	16,990 00	6,289 40
do 156,	.....	1.20	21,985 70	9,020 00	12,965 70
do 157,	.....	1.31	19,659 20	13,760 00	5,899 20
do 158,	.....	0.94	32,166 30	26,970 00	5,196 30
do 159,	.....	0.99	22,018 70	15,250 00	6,768 70
do 160,	.....	0.90	29,620 50	11,890 00	17,730 50
do 161,	.....	0.85	12,637 80	11,200 55	1,437 25
do 172,	.....	0.60	29,777 39	29,190 00	587 39
do 176,	.....	0.92	23,039 50	20,590 80	2,448 70
do 177,	.....	1.04	30,293 98	25,673 50	4,620 48
		13.11	\$322,916 27	\$235,664 85	\$87,251 42

Limestone Creek aqueduct,	0.04	\$21,793 70	\$19,680 00	\$2,113 70
Butternut do	0.06	20,268 73	13,410 00	6,858 73
		\$42,062 43	\$33,090 00	\$8,972 43
Bridges,	13	\$22,011 58	\$18,694 16	\$3,317 42
Culverts,	5	8,667 16	4,120 00	4,547 16
Waste-wier,	1	916 50	760 00	156 50
Double lock No. 50, .....	..	38,074 60	28,188 90	9,885 70
Paddle gates,	3 locks,	1,803 39	1,580 00	223 39
		\$436,451 93	\$322,097 91	\$114,354 02

(No. 2.)
STATEMENT

Showing the amount of work put under contract, completed and cancelled since January 1st, 1847, on the Eastern sub-division of the Middle division.

KIND OF WORK.	Length in miles and No. of structures.	Estimated cost at contract prices.	Amount done at contract prices.
Section No. 162,.....	0.49	\$9,235 40	\$9,235 40
do 163,.....	0.64	10,241 08	10,241 08
do 164,.....	0.49	10,593 50	10,593 50
do 165 and 166,.....	1.39	33,000 57	33,000 55
do 171,.....	0.56	15,202 05	15,202 05
do 173,.....	0.90	25,032 62	25,032 62
do 174,.....	0.94	25,115 13	25,115 13
do 175,.....	1.00	26,111 18	26,111 18
	6.41	\$154,531 53	\$154,531 53
Culverts,	5	5,830 32	\$5,830 32
Bridges,.....	5	9,768 45	9,768 45
Weigh lock,	1	17,516 77	17,516 77
Lock No. 47,	1	13,989 89	13,989 89
Paddle gates for ditto, .....	.....	500 07	500 07
Discharge culvert to weigh lock, .....	.....	8,523 20	8,523 20

Weigh lock house,.....	.....	8,283 37	8,283 37
Weigh scales,.....	.....	4,050 00	4,050 00
Erieville reservoir, .....	.....	34,424 82	34,424 82
Stop cock for do .....	.....	535 00	535 00
Pipes for do .....	.....	1,877 21	1,877 21
Iron fence in front of weigh lock house, .....	.....	476 44	476 44
		\$260,307 07	\$260,307 07

ABSTRACT.

KIND OF WORK.	Length in miles and No. of structures.	Estimated cost at con- tract prices.	Amount done at con- tract prices.	Amount remaining to be done at contract prices.
Sections,	19.52	\$477,447 80	\$390,196 38	\$87,251 42
Aqueducts,	2	42,062 43	33,090 00	8,972 43
Bridges,	18	31,780 03	28,462 61	3,317 42
Culverts,	10	14,497 48	9,950 32	4,547 16
Waste wier,	1	916 50	760 00	156 50
Locks,	2	52,064 49	42,178 79	9,885 70
Weigh lock,	1	17,516 77	17,516 77	.....
Paddle gates, .....	.....	2,303 46	2,080 07	223 39
Discharge culvert to weigh lock, .....	.....	8,523 20	8,523 20	.....
Weigh lock house, .....	.....	8,283 37	8,283 37	.....
Weigh scales, .....	.....	4,050 00	4,050 00	.....
Erieville reservoir, .....	.....	34,424 82	34,424 82	.....
Stop cock for do .....	.....	535 00	535 00	.....
Pipes for do .....	.....	1,877 21	1,877 21	.....
Iron fence in front of weigh lock house, .....	.....	476 44	476 44	.....
		\$696,759 00	\$582,404 98	\$114,354 02

[ASSEMBLY

(No. 3.)

TABULAR STATEMENT

Showing the length and estimated cost at contract prices of work under contract upon the Western sub division of the Middle division of the enlargement of the Erie canal, previous to December 30th, 1851; the amount of work done thereon, and remaining to be done, at contract prices; also the amount of payments made upon contracts abandoned and relet the 30th December, 1851.

KIND OF WORK.	No. miles and No. structures	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.	REMARKS.
Section No. 189,.....	0.96	\$19,146 60	\$3,480 00	\$15,666 60	
do 190,.....	1.05	21,736 00	7,010 00	14,726 00	
do 191,.....	0.99	18,155 50	3,800 00	14,355 50	
do 192,.....	.....	3,725 00	3,725 00	.....	Aban. and relet, pay'ts only are inc.
do 193,.....	.....	2,630 00	2,630 00	.....	do
do 194,.....	1.11	26,904 90	.....	26,904 90	
do 196,.....	0.85	18,946 40	.....	18,946 40	
do 198,.....	1.35	35,247 97	9,205 00	26,042 97	
do 199,.....	.....	775 00	775 00	.....	do
do 200,.....	0.85	20,047 33	4,925 00	15,122 33	
do 201,.....	0.82	17,477 12	2,820 00	14,657 12	
do 202,.....	0.71	183,135 66	71,755 00	111,880 66	This sec. incl. Seneca river aqued't.
Total sections,.....	8.69	\$367,927 48	\$110,195 00	\$257,802 48	

STATEMENT—(CONTINUED.)

74

[ASSEMBLY

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of done.	Amount remaining to be done at con- tract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport,	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owasco outlet,	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook,	1	12,163 42	8,820 00	3,343 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....				\$38,639 16	
Waste weir at Putnam brook,				\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....				\$1,073 57	Near Weedsport.
do 196,.....				963 95	Near Port Byron.
Total culverts,				\$2,037 52	

STATEMENT—(CONTINUED.)

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at con- tract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00		\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00		500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport,	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owasco outlet,	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook,	1	12,163 42	8,820 00	3,343 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	317 00	963 95	Near Port Byron.
Total culverts,	2	\$2,434 52	\$397 00	\$2,037 52	

STATEMENT—(CONTINUED.)

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport,	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owasco outlet,	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook,	1	12,163 42	8,820 00	3,343 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	317 00	963 95	Near Port Byron.
Total culverts,	2	\$2,434 52	\$397 00	\$2,037 52	

STATEMENT—(CONTINUED.)

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport,	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owasco outlet,	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook,	1	12,163 42	8,820 00	3,343 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	317 00	963 95	Near Port Byron.
Total culverts,	2	\$2,434 52	\$397 00	\$2,037 52	

STATEMENT—(CONTINUED.)

74

[ASSEMBLY

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at con- tract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00	\$77,680 00	\$2,395 00	
<i>Aqueducts</i>					
At Centreport,	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owasco outlet,	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook,	1	12,163 42	8,820 00	3,343 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	317 00	963 95	Near Port Byron.
Total culverts,	2	\$2,434 52	\$397 00	\$2,037 52	

Road-bridges, (including superstructure,)								
On section No. 190,.....	3		\$5,300 13	.....		\$5,300 13		
do 192,.....	1		1,766 71	.....		1,766 71		
do 193,.....	2		4,483 40	\$365 00	Weedspport.	4,118 40		
do 194,.....	1		1,763 90	215 00	Centreport.	1,548 90		
do 198,.....	.....		345 00	345 00	Aban. and relet, paym'ts only inc.	.....	
do 200,.....	.....		475 09	475 00	do	.....		do
do 201,.....	.....		50 00	50 00	do	.....		do
Total bridges,.....	7		\$14,184 14	\$1,450 00		\$12,734 14		

STATEMENT—(CONTINUED.)

74

[ASSEMBLY

KIND OF WORK.	No. miles and No. structures.	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.	REMARKS.
<i>Locks.</i>					
Double locks, No 51,.....	1	\$33,330 00	\$31,435 00	\$1,895 00	One mile west of the vill. of Jordan.
do 52,.....	1	46,745 00	46,245 00	500 00	Near the village of Port Byron.
Total locks,.....	2	\$80,075 00		\$2,395 00	
<i>Aqueducts</i>					
At Centreport,	1	\$14,185 80	\$1,330 00	\$12,855 80	Between Centreport and Weedsport.
Owasco outlet,	1	22,439 94	.....	22,439 94	At Port Byron.
Crane brook,	1	12,163 42	8,820 00	3,343 42	East of the village of Montezuma.
Seneca river, see sec. 202,	1	.....	.....	.....	On the Montezuma marsh.
Total aqueducts,.....	4	\$48,789 16	\$10,150 00	\$38,639 16	
Waste weir at Putnam brook,	1	\$2,561 08	.....	\$2,561 08	Total of waste weirs.
<i>Culverts.</i>					
On section No. 193,.....	1	\$1,153 57	\$80 00	\$1,073 57	Near Weedsport.
do 196,.....	1	1,280 95	317 00	963 95	Near Port Byron.
Total culverts,	2	\$2,434 52	\$397 00	\$2,037 52	

Road-bridges, (including superstructure,)									
On section No. 190,.....	3	\$5,300 13	.....	.....	.....	\$5,300 13			
do 192,.....	1	1,766 71	.....	.....	.....	1,766 71			
do 193,.....	2	4,483 40	.....	\$365 00	.....	4,118 40	Weedspport.		
do 194,.....	1	1,763 90	.....	215 00	.....	1,548 90	Centreport.		
do 198,.....	.....	345 00	.....	345 00	.....	.....	Aban. and relet, paym'ts only inc.		
do 200,.....	.....	475 09	.....	475 00	.....	.....	do	do	do
do 201,.....	.....	50 00	.....	50 00	.....	.....	do	do	do
Total bridges,.....	7	\$14,184 14		\$1,450 00		\$12,734 14			

ABSTRACT.

KIND OF WORK.	No. of miles and No. of structures.	Estimated cost at contract prices.	Amount of work done.	Am. remaining to be done at con. prices.
Sections,.....	8.69 miles,.....	\$367,927 48	\$110,125 00	\$257,802 48
Locks,.....	2 double locks,.....	80,075 00	77,680 00	2,395 00
Aqueducts,.....	4 aqueducts,.....	48,789 16	10,150 00	38,639 16
Waste weir,.....	1 waste weir,.....	2,561 08	.....	2,561 08
Culverts,.....	2 culverts,.....	2,434 52	397 00	2,037 52
Road-bridges,.....	7 bridges,.....	14,184 14	1,450 00	12,734 14
		\$515,971 88	\$199,802 00	\$316,169 38

ABSTRACT.

KIND OF WORK.	No. of miles and No. of structures.	Estimated cost at contract prices.	Amount of work done.	Am. remaining to be done at con. prices.
Sections,	8.24 miles	\$257,927 48		\$257,802 48
Locks,	2	80,075 00		2,395 00
Aqueducts,	4 aqueducts,	48,789 16		38,639 16
Waste weir,	1 waste weir,	2,561 08		2,561 08
Culverts,	2 culverts,	2,434 52		2,037 52
Road-bridges,	7 bridges,	14,184 14		12,734 14
		\$515,971 88	\$199,802 00	\$316,169 38

(No. 4.)

MILITARY STATEMENT

With this statement, the names of the persons contracting therefor, the estimated cost of the work, the number of the division of the Middle division of the enlargement of

	Estimated cost, including in per cent. for contin- uation.	Estimated cost at contract prices.
1. 1st division	1.00	22,977 00
2. 2nd division	1.00	28,364 00
3. 3rd division	1.00	29,739 00
4. 4th division	1.00	14,700 00
5. 5th division	1.00	21,249 00
6. 6th division	1.00	17,170 00
7. 7th division	1.00	17,170 00
8. 8th division	1.00	17,170 00
9. 9th division	1.00	17,170 00
10. 10th division	1.00	17,170 00
11. 11th division	1.00	17,170 00
12. 12th division	1.00	17,170 00
13. 13th division	1.00	17,170 00
14. 14th division	1.00	17,170 00
15. 15th division	1.00	17,170 00
16. 16th division	1.00	17,170 00
17. 17th division	1.00	17,170 00
18. 18th division	1.00	17,170 00
19. 19th division	1.00	17,170 00
20. 20th division	1.00	17,170 00
21. 21st division	1.00	17,170 00
22. 22nd division	1.00	17,170 00
23. 23rd division	1.00	17,170 00
24. 24th division	1.00	17,170 00
25. 25th division	1.00	17,170 00
26. 26th division	1.00	17,170 00
27. 27th division	1.00	17,170 00
28. 28th division	1.00	17,170 00
29. 29th division	1.00	17,170 00
30. 30th division	1.00	17,170 00
31. 31st division	1.00	17,170 00
32. 32nd division	1.00	17,170 00
33. 33rd division	1.00	17,170 00
34. 34th division	1.00	17,170 00
35. 35th division	1.00	17,170 00
36. 36th division	1.00	17,170 00
37. 37th division	1.00	17,170 00
38. 38th division	1.00	17,170 00
39. 39th division	1.00	17,170 00
40. 40th division	1.00	17,170 00
41. 41st division	1.00	17,170 00
42. 42nd division	1.00	17,170 00
43. 43rd division	1.00	17,170 00
44. 44th division	1.00	17,170 00
45. 45th division	1.00	17,170 00
46. 46th division	1.00	17,170 00
47. 47th division	1.00	17,170 00
48. 48th division	1.00	17,170 00
49. 49th division	1.00	17,170 00
50. 50th division	1.00	17,170 00
51. 51st division	1.00	17,170 00
52. 52nd division	1.00	17,170 00
53. 53rd division	1.00	17,170 00
54. 54th division	1.00	17,170 00
55. 55th division	1.00	17,170 00
56. 56th division	1.00	17,170 00
57. 57th division	1.00	17,170 00
58. 58th division	1.00	17,170 00
59. 59th division	1.00	17,170 00
60. 60th division	1.00	17,170 00
61. 61st division	1.00	17,170 00
62. 62nd division	1.00	17,170 00
63. 63rd division	1.00	17,170 00
64. 64th division	1.00	17,170 00
65. 65th division	1.00	17,170 00
66. 66th division	1.00	17,170 00
67. 67th division	1.00	17,170 00
68. 68th division	1.00	17,170 00
69. 69th division	1.00	17,170 00
70. 70th division	1.00	17,170 00
71. 71st division	1.00	17,170 00
72. 72nd division	1.00	17,170 00
73. 73rd division	1.00	17,170 00
74. 74th division	1.00	17,170 00
75. 75th division	1.00	17,170 00
76. 76th division	1.00	17,170 00
77. 77th division	1.00	17,170 00
78. 78th division	1.00	17,170 00
79. 79th division	1.00	17,170 00
80. 80th division	1.00	17,170 00
81. 81st division	1.00	17,170 00
82. 82nd division	1.00	17,170 00
83. 83rd division	1.00	17,170 00
84. 84th division	1.00	17,170 00
85. 85th division	1.00	17,170 00
86. 86th division	1.00	17,170 00
87. 87th division	1.00	17,170 00
88. 88th division	1.00	17,170 00
89. 89th division	1.00	17,170 00
90. 90th division	1.00	17,170 00
91. 91st division	1.00	17,170 00
92. 92nd division	1.00	17,170 00
93. 93rd division	1.00	17,170 00
94. 94th division	1.00	17,170 00
95. 95th division	1.00	17,170 00
96. 96th division	1.00	17,170 00
97. 97th division	1.00	17,170 00
98. 98th division	1.00	17,170 00
99. 99th division	1.00	17,170 00
100. 100th division	1.00	17,170 00

do	150,.....	do do	1.31	74,996 02	67,815 40
do	151,.....	W. & C. C. Barker,	1.37	49,148 11	39,417 20
		Add 10 per cent. for contingencies,			\$443,841 12
			16.99	\$499,696 19	44,384 11
					\$488,225 23
<i>Culverts.</i>					
On sections 135, 136, and 144,		Brown, Downer & Co.,	6	Estimated cost, including 5 pr. ct. for contingencies.	\$8,034 85
do	146 and 147,.....	do do	2	8,367 82	3,335 72
do	137,	Israel S. Parker,.....	2	3,620 31	2,971 09
do	138,	do do	1	2,895 31	1,757 25
do	139, sta. 1,	Otis B. Howe,.....	1	1,855 35	1,915 05
do	139, sta. 20,	do do	1	1,978 52	6,398 50
do	141, feeder,.....	do do	1	6,363 00	1,030 75
do	141, sta. 70,.....	do do	1	1,050 00	5,970 60
do	145,	Fisher & Groat,	1	5,969 27	3,984 84
do	149,	Jerry B. Rice,	1	5,592 45	1,340 20
do	150,	do do	1	1,363 11	6,691 90
do	151,	do do	1	6,993 42	1,155 14
		Add 5 per cent. for contingencies,		1,178 56	
			19		\$44,585 89
					2,229 29
				\$47,227 12	\$46,815 18

(No. 4.)

TABULAR STATEMENT

Showing the work put under contract December 30th, 1851, the names of the persons contracting therefor, the estimated cost of the same, and the cost at contract prices, on the Eastern sub-division of the Middle division of the enlargement of the Erie canal.

KIND OF WORK AND WHERE LOCATED.	Names of Contractors.	Length in miles and No. of structures.	Estimated cost, including 10 per cent. for contingencies.		Estimated cost at contract prices.
SECTIONS.					
Section No. 135,.....	Lewis & Morton,.....	0.97	\$25,360	39	\$22,977 90
do 136,.....	do	1.08	29,186	52	26,364 62
do 137,.....	Israel S. Parker,.....	0.94	25,013	34	22,739 90
do 138,.....	do	0.81	20,596	40	18,705 50
do 139,.....	Norton & Hess,.....	0.85	23,706	98	21,219 00
do 140,.....	Henry S. Webb,	0.99	13,315	50	12,170 00
do 141,.....	do	0.92	25,258	20	23,169 00
do 142,.....	Oliver P. Root,.....	1.01	32,023	20	28,729 00
do 143,.....	Pratt, Hatch & Co.,	1.05	31,716	74	27,832 00
do 144,.....	Otis B. Howe,.....	0.98	23,586	20	21,123 60
do 145,.....	do	1.02	25,062	62	22,763 20
do 146,.....	Crounse & Shoemaker,.....	1.06	28,356	02	23,499 20
do 147,.....	Myers & Johnson,.....	1.02	24,533	30	22,462 50
do 148,.....	Nicholas H. Decker,	0.95	28,224	02	25,283 20
do 149,.....	Jerry B. Rice,.....	0.66	19,612	63	17,565 90

do	150,.....	do do	1.31	74,996 02	67,815 40
do	151,.....	W. & C. C. Barker,	1.37	49,148 11	39,417 20
Add 10 per cent. for contingencies,			.....	.....	\$448,841 12
			.....	.....	44,384 11
			16.99	\$499,696 19	\$488,225 23
<i>Culverts.</i>					
On sections 135, 136, and 144,		Brown, Downer & Co.,	6	Estimated cost, including 5 pr. ct. for contingencies.	\$8,034 85
do	146 and 147,.....	do do	2	8,367 82	3,335 72
do	137,	Israel S. Parker,	2	3,620 31	2,971 09
do	138,	do do	1	2,895 31	1,757 25
do	139, sta. 1,	Otis B. Howe,	1	1,855 35	1,915 05
do	139, sta. 20,	do do	1	1,978 52	6,398 50
do	141, feeder,	do do	1	6,363 00	1,030 75
do	141, sta. 70,	do do	1	1,050 00	5,970 60
do	145,	Fisher & Groat,	1	5,969 27	3,984 84
do	149,	Jerry B. Rice,	1	5,592 45	1,340 20
do	150,	do do	1	1,363 11	6,691 90
do	151,	do do	1	6,993 42	1,155 14
Add 5 per cent. for contingencies,			.....	.....	\$44,585 89
			19	\$47,227 12	2,229 29
					\$46,815 18

STATEMENT—(CONTINUED.)

KIND OF WORK AND WHERE LOCATED.	Names of contractors.	Length in miles and No of structures.	Estimated cost including 5 per cent for contingencies.	Estimated cost at contract prices.
<i>Aqueduct.</i>				
At Chittenango,	Wells & Thomas,	1	\$18,204 59	\$14,901 05
	Add 5 per ct. for contingencies, .....		.....	745 05
			\$18,204 59	\$15,646 10
<i>Waste weir,</i>				
On section 141,	Otis B. Howe,	1	\$2,647 93	\$2,693 84
	Add 5 per ct. for contingencies, .....		.....	134 69
			\$2,647 93	\$2,828 53
<i>Dam and Guard gate.</i>				
On section 141,	Groat & Fisher,	1	\$2,206 78	\$2,396 70
	Add 5 per ct. for contingencies, .....		.....	119 83
			\$2,206 78	\$2,516 53
<i>Bridge abutments.</i>				
On sections 135, 136 and 140, .	Birchard, Bixby & Co.,	4	\$6,754 44	\$6,011 80
	Add 5 per ct. for contingencies, .....		.....	360 70
			\$6,754 44	\$6,372 50

[A. S. S. S. S.]

On sections 137, 143,.....	Shanahan, Thompson & Co.,.....	.....	\$3,142 86	\$2,724 80
	Add 5 per ct. for contingencies,	.....	.....	136 24
			\$3,142 86	\$2,861 04
On sections 145, 146 and 148, .	Swain & Nodwell,.....	.....	\$10,366 02	\$7,392 00
	Add 5 per ct. for contingencies,	.....	.....	369 60
			\$10,366 02	\$7,761 60
On sections 150 and 151,	Swain & Nodwell,.....	.....	\$4,497 15	\$3,282 90
	Add 5 per ct. for contingencies,	.....	.....	164 14
			\$4,497 15	\$3,447 04
<i>Bridge Superstructure.</i>				
3 road bridges with side walks,	Corning & Townsend,	Ag' gates span. 225	\$4,725 00	\$6,430 50
11 common road bridges,	do	825	9,095 62	15,675 00
1 farm bridge,.....	do	75	511 87	712 50
	Add 5 per ct. for contingencies,	.....	.....	\$22,818 00
			\$14,332 49	1,140 90
				\$23,958 90

ABSTRACT.

	Length in miles and No. of structures.	Estimated cost, including 10 pr. ct. for contingencies.	Estimated cost at contract prices, including 10 pr. ct.	Estimated cost including 5 per ct. for contingencies.	Estimated cost at contract prices, including 5 pr. ct.
Sections,	16.99	\$499,696 19	\$488,225 23		
Culverts,	19.	.....	.....	\$47,227 12	\$46,815 18
Aqueducts,	1	.....	.....	18,204 59	15,646 10
Waste weirs,	1	.....	.....	2,647 93	2,828 53
Dam and guard gate,	1	.....	.....	2,206 78	2,516 53
Bridge abutments, .....	.....	.....	.....	24,760 47	20,442 18
do superstructure, .....	.....	.....	.....	14,332 49	23,928 90
		\$499,696 19	\$488,225 23	\$109,379 30	\$112,207 42

(No. 5.)

TABULAR STATEMENT

Showing the work put under contract, December 30th, 1851; the names of persons contracting therefor; the estimated cost of the same, and the cost at contract prices on the Western sub-division of the Middle division of the enlargement of the Erie canal.

NO. OF			Estimated cost in- cluding 10 per. ct. for contingencies.	Estimated cost at contract prices.	REMARKS.
Section No. 192,.....	Anson Sutherland & Co.,	1.01	\$24,632 85	\$22,947 00	Ab. by f'mr con. and relet.
do 193,.....	S. P. Jacobs & Co.,.....	1.08	34,195 70	29,769 00	do
do 195,.....	Emery Rosebrook & Co.,	0.79	37,356 00	34,360 00	do
do 197,.....	McQuigg & Foster,.....	0.78	28,979 50	21,395 50	do
do 199,.....	Lester & Stokes,.....	0.98	42,709 26	29,333 15	do
do 203,.....	George Smith,.....	1.00	137,038 22	119,222 80	
do 204,.....	Dimmick Weed & Co.,...	1.37	97,027 81	91,895 38	
do 205,.....	James R. Webster & Co.,	0.80	18,465 92	16,736 00	
do 206,.....	Wm. A. Sackett & Co.,...	0.79	18,479 58	16,111 63	
Add for contin. 10 pr. ct.		.....	.....	381,770 46	
		.....	.....	28,177 04	
		8.55	\$439,784 84	\$419,947 50	Estim'd to com. sections.

ABSTRACT.

		Estimated cost at contract prices, including 10 per cent.	Estimated cost including 5 per cent. for contingencies.	Estimated cost at contract prices, including 5 per cent.
		\$488,225 23		
Aqueducts,	1	.....	\$47,227 12	\$46,815 18
Waste weirs,	1	.....	18,204 59	15,646 10
Dam and guard gate,	1	.....	2,647 93	2,828 53
Bridge abutments, .....	.....	.....	2,206 78	2,516 53
do superstructure, .....	.....	.....	24,760 47	20,442 18
		.....	14,332 49	23,928 90
		\$499,603 19	\$109,379 30	\$112,207 42

(No. 5.)

TABULAR STATEMENT

Showing the work put under contract, December 30th, 1851; the names of persons contracting therefor; the estimated cost of the same, and the cost at contract prices on the Western sub-division of the Middle division of the enlargement of the Erie canal.

NO. OF SECTION AND KIND OF STRUCTURE.	Names of Contractors.	No. of miles and No. of structures.	Estimated cost including 10 per. ct. for contingencies.	Estimated cost at contract prices.	REMARKS.
Section No. 192,.....	Anson Sutherland & Co.,	1. 01	\$24, 632 85	\$22, 947 00	Ab. by f'mr con. and relet.
do 193,.....	S. P. Jacobs & Co.,.....	1. 08	34, 195 70	29, 769 00	do
do 195,.....	Emery Rosebrook & Co.,	0. 79	37, 356 00	34, 360 00	do
do 197,.....	McQuigg & Foster,.....	0. 78	28, 979 50	21, 395 50	do
do 199,.....	Lester & Stokes,.....	0. 98	42, 709 26	29, 333 15	do
do 203,.....	George Smith,.....	1. 00	137, 038 22	119, 222 80	
do 204,.....	Dimmick Weed & Co.,...	1. 37	97, 027 81	91, 895 38	
do 205,.....	James R. Webster & Co.,	0. 80	18, 465 92	16, 736 00	
do 206,.....	Wm. A. Sackett & Co.,...	0. 79	18, 479 58	16, 111 63	
	Add for contin. 10 pr. ct.	.....	.....	381, 770 46	
		8. 55	\$439, 784 84	38, 177 04	
				\$419, 947 50	Estim'd to com. sections.

STATEMENT—(Continued.)

84

[ASSEMBLY

NO. OF SECTION AND KIND OF STRUCTURE.	Names of Contractors.					
<i>Culverts.</i>						
Section No. 189,.....	Emery Rosebrook,.....	1	1,769 24	2,740 91	1,740 91	do
do 190,.....	do	1	2,168 16	1,693 31	1,693 31	do
do 191,.....	S. P. Jacobs & Co.,.....	2	3,469 86	3,064 60	3,064 60	do
do 192,.....	Androus & Wiley,.....	1	1,117 65	1,099 51	1,099 51	do
do 197,.....	McCartney & Bishop,.....	1	1,359 83	1,351 86	1,351 86	do
do 201,.....	do					
do 204,.....	Samuel Bell & Co.,.....	1				
do 205,.....	do					
	Add for contin. 10 pt. ct.	11	\$18,124 09	\$17,950 16		Estim'd to com. culverts.
<i>Bridge abutments.</i>						
Section No. 189,.....	McQuigg & Foster,.....	1 farm	\$1,317 14	\$1,168 05		
do 192,.....	do	1 do	1,317 14	1,168 05		
do 194,.....	do	1 do	1,317 14	1,168 05		
do 197,.....	Hiram E. Storrs & Co.,...	3 road	7,315 73	5,744 56		Ab. by f'mr con. and relet.
do 198,.....	do	1 do	2,093 46	1,680 16		do
do 200,.....	S. P. Jacobs & Co.,.....	1 ro'd & f'm	3,410 60	2,862 77		Road bridge ab. and relet.

do	201,.....	Hiram E. Storrs & Co.,...	3 road, 1 ch.	7,774 75	6,154 82	3 road bridges	do
do	204,.....	do	1 rd. & ch.	1,596 80	1,176 70		
		Add for contin. 10 pr. ct.	.....	.....	21,123 16		
			.....	.....	2,112 31		
		Deduct materialson hand,	.....	26,142 76	23,235 47		
			.....	905 75	905 75	Materials delivered by	
			14 bridges.	\$25,237 01	\$22,329 72	[former contractors.	
			Aggregate span.	10 per cent for contingencies not included.		Estimated to complete	
			82 feet,...	\$1,650 00		[bridge abutments.	
		Corning & Townsend,...		8,900 00	\$2,343 56	In village of Port Byron.	
		do	692 " ...	2,000 00	13,148 00		
		do	300 " ...		2,850 00		
				\$12,550 00	\$18,344 56	Estimated to complete	
						[bridge superstructure.	
		Seymour & Wood,.....	4 locks, ...	\$2,200 00	\$2,165 60	Double locks No. 51, & 52.	

Bridge superstructure.

1 road bridge with side
walks, section 197, ...
9 rd. bridges, secs. 197,
198, 200, 201 and 204,
4 farm bridges, secs. 189,
192, 194 and 200, ...

Valve gates.

Locks No. 51 and 52, ...

ABSTRACT.

KIND OF WORK.		No.		
Sections,		8.55 miles,	\$439,784 84	\$419,947 50
Culverts,		11 culverts,	18,124 09	17,950 16
Bridge abutments,		14 bridges,	25,237 01	22,329 72
do superstructures,		do "	12,550 00	18,341 56
Valve gates,		4 locks,	2,200 00	2,165 60
			\$497,895 94	\$480,734 54

GENERAL SUMMARY.

	Estimated cost at contract prices.	Amount of work done.	Amount remaining to be done at contract prices.
Eastern sub-division, work completed and contracts cancelled,....	\$260,307 07	\$260,307 07	.....
do do under contract previous to Dec. 30,....	436,451 93	322,097 91	\$114,354 02
do do placed under contract do	600,432 65	.....	600,432 65
Western do do under contract previous to do	515,971 38	199,802 00	316,169 38
do do placed under contract do	480,734 54	.....	480,734 54
	\$2,293,897 57	\$782,206 98	\$1,511,690 59

OSWEGO CANAL.

Originally, there were 18 lift locks, and 6 guard locks on this canal. Lift locks Nos. 5, 8, 9, 10, and 18 are now rebuilt and enlarged. Lift lock No. 4, at Salina, and guard lock No. 4, at Fulton, are to be dispensed with.

Lock No. 5, commonly called Mud lock, was rebuilt in 1837. Nos. 8, 9 and 10 were brought into use last spring, and lock No. 18, at Oswego, is completed, but cannot be made available until lock 17, and some section work shall be constructed.

In order to carry into effect chapter 501, Laws of 1851, which provides for "the enlargement of the locks of the Oswego canal," surveys have been made, and locations established for all the remaining locks, to be rebuilt and enlarged on this canal, with the exception of lift lock No. 16, and guard lock No. 6 at Oswego. These two locks were involved in the question of separating the canal from the river at Oswego, which question was not decided by the Canal Board in time to prepare them for letting in connection with the others. They can very soon be prepared for contract, so that no serious embarrassment will be occasioned by the delay.

The location of guard lock No. 2 was reserved by the Canal Board for further action, in consequence of a petition from citizens of Phoenix, asking that said lock and the Horse-shoe dam may be abandoned; and a canal substituted for slack water navigation. All needful examinations will soon be made, and the question again submitted.

Eleven lift locks and three guard locks with the necessary section work to bring them into use, were contracted for on the 30th December last, to be completed by the 15th day of April, 1854.

The estimated cost of these 14 locks, including the section work, with 8 per cent added to cover contingencies, amounts to	\$194,893 00
The cost of the same work at contract prices, including like per centage for contingencies, amounts to	487,285 00
	<hr/>
Less than the estimate,	\$7,608 00
	<hr/> <hr/>

The amount already expended in constructing locks

Nos. 8, 9, 10 and 18, is	\$124,369 19
Amount required to complete said locks is	4,300 00
	<hr/>

Total cost of the 4 locks and section work, ...	<u>\$128,669 19</u>
---	---------------------

Which is an average of $\$32,167\frac{3}{8}$ per lock. These locks having been built under the old specifications, are in my judgment inferior to none of the enlarged locks on the Erie canal.

It may be proper to remark, that in enlarging the locks of the Oswego canal, new locations must in all cases be obtained, except for guard locks, and this involves the necessity of constructing more or less section work at the head and foot of every lock, which being river work, is heavy and expensive, and constitutes a large item in the estimate.

Act, chapter 501, appropriates \$400,000 for rebuilding the locks of the Oswego canal, and provides, "that after ascertaining the cost of the locks at contract prices, the balance shall be used in enlarging the section work."

I would therefore recommend, and respectfully urge the importance of completing the section work between locks 8 and 9 at Fulton, as most essential in the improvement of navigation at that place.

The same remark is applicable to various places between Syracuse and Oswego, and indeed, the wants of navigation require that 7 feet of water be attained throughout the whole line as soon as practicable under the law referred to.

The general repairs should be regulated to correspond with the improvement that may be made under the aforesaid act.

The following table, No. 6, exhibits in detail the estimated cost at contract prices, of work put under contract previous to December 30th, 1851, the amount done thereon at contract prices, and the amount remaining to be done on the first of January, 1852, for constructing locks Nos. 8, 9, 10 and 18.

Table No. 7 shows the work put under contract on the 30th December, 1851, the names of the persons contracting therefor, and the estimated cost of the same, and the cost at contract price.

(No. 6.)

TABULAR STATEMENT

Showing the work under contract on the Oswego canal, previous to 30th December, 1851, the estimated cost at contract prices, the amount of work done, and remaining to be done on the 30th of December, 1851.

STRUCTURES.	Contractors' Names.	Estimated cost at contract prices.	Amount paid.	Amount remaining to be paid.	REMARKS.
Lock No. 8,.....	William Baldwin,.	\$46,265 00	\$44,765 00	\$1,500 00	Comp'd, final estimate not paid.
do 9,.....	Ashley H. Ball, ..	25,109 92	25,109 92	...	Final estimate paid.
do 10,.....	do do ..	25,744 27	25,744 27	.....	" "
do 18,.....	N. Shippy & Co. . .	29,250 00	26,750 00	2,500 00	Comp'l'd, final estimate not paid.
Valve gates for lock 9	Alfred Bell,.....	350 00	350 00	.....	Final estimate paid.
do do 8, 10, 18,	Seymour & Wood,	1,950 00	1,650 00	300 00	
		\$128,669 19	\$124,369 19	\$4,300 00	

STRUCTURE OR WORK.	Names of Contractors.	Estimated cost including 8 per ct. for contingencies.	Estimated cost at contract prices.
Lift lock No. 1,.....	Robert Gere & Co.,.....	\$37,492 00	\$33,476 00
do 2,.....	do	36,598 00	32,943 00
do 3,.....	Dodge & Comstock,.....	38,986 00	34,491 50
do 6,.....	Peter Dunn & Co.,.....	27,969 00	23,394 00
do 7,.....	M. J. Marlett & Co.,.....	29,577 00	25,577 50
do 11,.....	A. B. Dickinson,.....	36,152 00	33,402 00
do 12,.....	do	40,649 00	39,439 50
do 13,.....	A. G. Sage & Co.,.....	35,795 00	31,780 50
do 14,.....	A. C. Kenyon,.....	36,362 00	35,981 80
do 15,.....	Wm. Baldwin,.....	28,455 00	25,394 60
do 17,.....	Philo Stevens, assigned to Wm. Baldwin,	30,840 00	26,288 00
Guard lock No. 1,.....	C. N. Steves & Co.,.....	20,101 00	19,467 30
do 3,.....	C. H. Sage & Co.,.....	21,045 00	21,077 50
do 5,.....	Jas. McDonald,	20,026 00	17,346 00
Section No. 38,.....	R. C. Kenyon,.....	46,596 00	44,250 00
*Valve gates for 15 locks,....	C. C. Bradley,.....	8,250 00	6,880 00
			\$451,189 20
			36,095 80
			\$487,285 00

Add 8 per cent for contingencies,

\$494,893 00

\$487,285 00

* Awarded, but contract not executed.

ONEIDA RIVER IMPROVEMENT.

This improvement consists in removing several bars in the Oneida river, between the foot of the lake at Brewerton, and the Oswego river at Three River point, a distance of 20 miles, on which there are one dam and two locks, one $9.3\frac{1}{4}$, and one of 3 feet lift, with chambers 120 by $30\frac{1}{2}$ feet.

There are two draw-bridges on the river, one at Brewerton and one at Oak Orchard; the former is owned by an association. Docks and guides for the protection of this draw have been constructed by the bridge company, and paid for by the State.

The bridge at Oak Orchard is owned by the towns of Clay and Schroepell; these towns have been compelled to construct a draw in the bridge, the expense of which has been paid for by the State.

Four steamboats adapted to the business, have been regularly engaged the past season in towing canal boats on the river and lake. A large portion of the business of the Oswego canal, has left that canal at Three River point, and entered the Erie canal at Higginsville, passing through the Oneida river and Oneida lake, and the Oneida Lake canal.

Without pretty extensive repairs to the Oneida Lake canal and the locks thereon, the business through this channel of communication must be very soon restored to the portion of the Oswego canal from whence it came.

Contracts for improving the Oneida river have been completed and cancelled.

The amount of work done under these contracts is \$18,422.38.

SENECA RIVER IMPROVEMENT AT BALDWINVILLE.

For information in relation to this improvement, I beg leave to refer you to the Canal Commissioners' report of the 24th of January last, page 46, and my own remarks in relation thereto contained in the State Engineers' report made at the same time.

The stone monuments required by law to be "set up" to designate the height of the dam, have been established, and a description thereof filed in the offices of the county clerk of the towns of Lysander and Van Buren.

No expenditures have been made on the improvement other than for examinations and surveys.

ONEIDA LAKE CANAL.

This canal is 6 miles long, and extends from the Erie canal at Higginsville to Wood creek, near its confluence with Fish creek, at a point 2 miles above the head of Oneida lake.

On it are 7 lift-locks all of wood, and in a dilapidated condition.

The prism of the canal is so much contracted that it is difficult for loaded boats to pass, and unless thorough repairs are soon made to both canal and lake, the business now doing upon it must seek another channel.

CAYUGA AND SENECA CANAL.

For a brief history of the plans for improving the navigation of the Cayuga and Seneca canal, and the re-building, and enlarging the locks upon the same, I cannot do better than refer you to a portion of the report made to me last year by the resident engineer, Mr. Wentz, which is as follows:

By a law passed in 1836, the Canal Commissioners are authorized to re-build the locks on this canal, of stone of the *width* of the enlarged locks, whenever the interests of navigation shall require.

By a subsequent law passed in 1847, the Canal Commissioners are authorized under certain conditions, to change the plan from cut stone to composite locks and construct them of the dimensions of the enlarged locks on the Erie canal.

In July, 1848, the necessary surveys and estimates were made in compliance with the act of 1847, and presented to the Canal Board. The plan and estimates having been approved, the plan

of an enlarged composite lock was adopted, and two of the locks located at Waterloo were placed under contract. These locks were finished and brought into use in the spring of 1849.

Three other locks located at Seneca Falls have since been completed and brought into use.

By the plan adopted for re-building the locks on this canal, one lock is dispensed with near Geneva, by extending the Waterloo level to the lake, and it is proposed to dispense with another, located about two miles below Waterloo, by raising the dam at Seneca Falls, or by continuing the Chamberlain dam and constructing an independent canal to Seneca Falls, as future examinations may render advisable.

Under this arrangement five locks remain yet to be rebuilt on this canal.

By an act, chap. 218, Laws of 1849, the Canal Commissioners are authorised to change the line of this canal from lock No. 9, below Seneca Falls, and cross the Seneca river with an aqueduct.

The surveys for this change were made in 1849, and an estimate of the cost of the work presented to the Canal Commissioners, who after a personal examination of the line, adopted the proposed change. During the season past, additional surveys and examinations have been made, with a view to making an entire separation from the river below lock No. 9, and continue the proposed independent line of canal upon the south side the river, instead of the north side as heretofore, thus reducing the length of the aqueduct required at the crossing of the Cayuga outlet, by passing the water of Seneca river through the old canal, and making the junction of the two streams below the proposed aqueduct. It is believed that this plan will materially lessen the difficulties arising from high water in the Cayuga lake, of which there has of late been much complaint by those living on the borders of the lake, and liable to be affected thereby. This plan also dispenses with the dam and tow-path bridge below lock No. 9.

The recent surveys and examinations demonstrate the entire feasibility of this plan, and at a cost within the estimates for the line upon the north side of the river.

By this improvement three locks are dispensed with, a difficult and expensive portion of navigation is avoided, and a continuous level formed connecting with the Seneca river above lock No. 9, and extending to Montezuma upon the same base as the enlarged Erie canal.

This improvement cannot fairly be considered as involving the expense of raising the banks of the present canal from Montezuma to East Cayuga, a distance of 7 miles, nor the consequent expense of raising and increasing the lift of the locks at the Cayuga lake, as these improvements will be necessary and grow out of the change in the level of the Erie canal at Montezuma, made by the plan adopted for its enlargement, it should therefore, only be considered as the alternate to the plan of connecting the Cayuga and Seneca canal with the enlarged Erie canal by a lock.

The old locks on this canal, and particularly those included within this proposed change of line, are in a dilapidated condition. They are constructed entirely of timber, and have been in use so long, and are in such a state of decay as to render it impossible to repair them so as to make them safe for the purposes of navigation without an expenditure almost equivalent to reconstructing them of timber.

In their present state they are liable to give way at the most important season of navigation, and create a suspension which would be disastrous.

There is a pressing necessity for calling attention to the condition of four locks below Seneca Falls, and the lock at the Cayuga side cut. Whether the improvements recommended are adopted or not, lock No. 9 must be rebuilt, and also the one at the Cayuga side cut; and measures should be taken to complete the work before the opening of navigation in the spring of 1853.

Unless early action is taken in regard to all the old structures on the Cayuga and Seneca canal, below Seneca Falls, it is more than probable that navigation will be suspended on this portion of the canal within two years.

CROOKED LAKE CANAL.

Since the date of my last report, the piers on Seneca lake, designed to secure the entrance into the lake, represented as then in progress have been completed; the harbor for boats rendered convenient of access, and secure. With the exception of rebuilding the dam at Penn Yan, and constructing some additional protection at the mouth of the canal on the Crooked lake, the navigation may be maintained in a good condition with an ordinary expenditure.

CHEMUNG CANAL.

The locks upon this canal have been already twice constructed of timber, upon plans very different in their general details, but both defective. As a measure of economy it is presumed the experiment of rebuilding them again entirely of timber, will not be repeated. Locks upon the composite plan, with tight walls, may be constructed upon this canal at a cost per lock but little above the expense incurred in rebuilding them of timber, upon the plan now in use.

I would therefore suggest the propriety of making some provision authorizing the Canal Commissioners to rebuild a limited number in each year, selecting those in the most advanced stages of decay, upon the composite plan, so that the process of rebuilding shall keep pace with the decay of the present structures.

This would render the rebuilding of a large number in one season unnecessary, and would materially lessen the cost of the work.

Fifty thousand dollars, I think, can be advantageously expended annually in rebuilding these locks, and no less a sum will combine economy with the wants of navigation.

CHENANGO CANAL.

The process of repairing the locks upon this canal by removing the lining and decayed portions of the chamber posts, has been continued, but only when the advanced stage of decay has rendered it absolutely necessary. This, with the new lock-gates,

the removal of the bulk-heads and sluices around the locks, together with the superstructure of bridges, constitutes the main features in the expenditures for repairs other than those of an ordinary nature.

Many of the locks remain yet to be repaired, and the renewal of the bridge superstructures must be continued as fast as the indications of decay shall require; this, from the great number of bridges, must form no inconsiderable item in the expenditure for repairs for some years to come.

ENGINEER DEPARTMENT.

I submit tabular statement No. 1 and 2, showing the number and compensation of engineers employed during the year 1851, on the two sub-divisions respectively, with all other expenditures in the engineer department. By reference to the abstract and summary, it will be seen that the expenditures have been as follows :

For engineering service proper,	\$18,076 67
Overseers and superintending mechanical structures,	1,333 75
Labor, sinking test pits,	237 93
Stationery and printing,	427 69
Office rent, fuel, lights and cleaning offices, ..	442 33
Postage, telegraph and express,	74 92
Affidavits,	36 91
Travelling expenses of resident engineers,	644 46
Miscellaneous,	168 18
Extra services canvassing propositions, allowed by Canal Board,	1,163 74
Salary of division engineer,	\$1,700 00
Travelling expenses of do	451 21
	<hr/> 2,151 21
Total for middle division in 1851,	\$24,757 79
do do 1850,	24,796 35
	<hr/>
Difference in favor of 1851,	38 56
	<hr/> <hr/>

In order to show in as condensed a form as possible the amount of each person's proposition for the several kinds of work recently contracted for, I have appended in tabular form an abstract of the canvass sheets now on file in the State Engineer's office, together with the estimated quantities exhibited at the letting, and used in determining the amount of each person's bid.

Respectfully submitted.

JOHN T. CLARK,
Division Engineer.

Albany, December 31, 1851.

(No. 1.)

STATEMENT

Showing the number and compensation of engineers employed during the year 1851, on the Eastern sub-division of the Middle division of the New-York State canals.

JOHN T. CLARK, Division Engineer, acting as Resident to the 18th October, 1851.

L. L. NICHOLS, Resident Engineer from the 18th October to the 31st December, inclusive.

NAMES.	Nature of service rendered.	Time em- ployed.	Rate of compensa- tion per day.	Amount.
O. C. Hartwell,.....	First assistant engineer,.....	313	\$3 50	\$1,095 50
M. C. Fremyre,	First do	69	3 50	241 50
John G. Sipple,.....	First do	34	3 50	119 00
Daniel R. Hartwell,.....	Second do	313	2 50	782 50
Gerrit S. Backus,.....	Second do	313	2 50	782 50
Daniel Richmond,	Second do	125	2 50	312 50
G. S. Johnson,	Assistant on Erieville reservoir,	195	1 75	341 25
W. S. Nearing,	Surveyor,	77	1 75	646 25
do	do	157	2 00	
do	Second assistant,	79	2 50	
O. H. Bogardus,.....	Leveller,	77	1 50	627 00
do	do	157	2 00	
do	Second assistant,	79	2 50	
James Burke,	Draughtsman,	77	1 50	587 50
do	do	236	2 00	
William S. Segar,.....	do	45	1 50	67 50

E. B. Van Dusen,.....	Rodman,.....	104	1 25	130 00
S. M. Carpenter,.....	do	183	1 25	228 75
J. L. Rhoades,.....	do	132	1 25	165 00
F. H. E. Brown,	Tape and axeman,.....	104	1 00	104 00
do	Rodman,	63	1 25	78 75
Montgomery Pelton,.....	Chainman,.....	51	1 00	51 00
William Carpenter,	do	87	1 00	87 00
Edward W. Carpenter,	do	46	1 00	46 00
E. P. Clark,.....	Tapeman,	40	1 00	40 00
Nathaniel Ring,	Chainman,.....	38	1 00	38 00
do	Labor, sinking shaft,	30	1 00	30 00
Alfred Strong,	Axeman,	104	1 00	104 00
Amos Kinne,	do	183	1 25	228 75
De Witt Cunningham,.....	do	40	1 00	40 00
James O'Neal,.....	do	42	1 00	42 00
Malachi Tehan,.....	Inspector,.....	313	1 50	469 50
William Crossett,.....	do	155	2 00	310 00
do	do	158	1 50	237 00
L. L. Nichols,.....	Resident engineer,	74	\$1,500 per yr.	304 11
do	Traveling fees, .....	....	.....	39 06
William L. Crossett,	Labor, sinking test pits,.....	20	\$1 per day,	20 00
Total,.....	.....	.....	.....	\$8,395 92

INCIDENTAL EXPENSES.

Stationery,	\$198 06
Fuel,.....	76 73
Lights,	28 44
Office rent,.....	17 72
Postage, telegraph and express charges,	44 49
Affidavits,.....	17 01
Cleaning office,.....	26 00
Miscellaneous expenses,.....	156 74
Extra services and traveling expenses paid sundry persons engaged in canvassing propositions under a resolution of the Canal Board, passed Nov. 28th, 1851,	370 16
Total,.....	<u>\$985 35</u>

(No. 1.)
STATEMENT

Showing the number and compensation of engineers employed during the year 1851, on the Oswego canal, embraced in the middle division of the New-York State canals.

JOHN T. CLARK, Division Engineer, acting as Resident to the 1st of October, 1851.
MORRIS S. KIMBALL, Resident Engineer from the 1st of Oct. to the 31st of Dec., inclusive.

NAME.	Nature of service rendered.	Time employed.	Rate of compensation per day.	Amounts.
Morris S. Kimball,.....	1st asst. engineer,	234	\$3 50	\$819 00
W. W. Jerome,.....	Rodman and inspector,.....	234	1 50	351 00
do	Leveler,.....	79	2 00	158 00
A. C. Scott,.....	Rodman and olerk,	234	1 50	351 00
do	Draughtsman,.....	79	2 00	158 00
I. M. Rich,.....	do	39	2 00	78 00
Thomas Jekylle,	do	85	2 00	170 00
Bruce Kimball,.....	Rodman,.....	111	1 25	138 75
N. W. Benedict,	Clerk,	4	1 50	6 00
C. H. Lusk,.....	do	95	1 25	118 75
W. E. Sparrow,	Axeman,.....	48	1 00	48 00
Morris S. Kimball,.....	Resident engineer,.....	3 months	\$1,500 pr. yr.	375 00
do	Travel fees,.....	.....	.....	79 80
Total,.....	.....	.....	.....	\$2,851 30

INCIDENTAL EXPENSES.

Stationery,	\$95 04
Fuel and lights,...	6 25
Office rent,.....	52 00
Postage and telegraph,.....	11 81
Affidavits to monthly estimates,	8 52
Timber for stakes,.....	1 25
Extra services and travelling expenses paid, sundry persons engaged in canvassing propositions under a resolution of the Canal Board, passed Nov. 28th, 1851,.....	\$426 75
Total,	<u>\$601 62</u>

SENECA RIVER IMPROVEMENT AT BALDWINVILLE.

Incidental Expenses.

Transportation and expenses of procuring stone monuments to designate the height of dam,	\$3 19
Recording description of monuments in the towns of Van Buren and Lysander,	4 00
Expenses of Bogardus attending Appraisers,	1 50
	<u>\$8 69</u>

ABSTRACT

Of expenditure of the Engineer Department on the eastern sub-division of the middle division of the State canals, from January 1st 1851, to January 1st, 1852.

(No. 2.)

STATEMENT.—Showing the number and compensation of engineers employed during the year 1861, on the western sub-division of the middle division of the New-York State canals.

CHARLES W. WENTZ, Resident Engineer.

NAMES.	Nature of services rendered.	Time em- ployed.	Rate of compen- sation per day.	Amounts.
Theodore D. Judah,.....	First assistant engineer,.....	28	\$3 50	\$ 98 00
Van R. Sweet,.....	First do	99	3 50	346 50
James Barnes,.....	First do	34	3 50	119 00
John L. Stephenson,	Second do	175	2 50	437 50
"	First do	138	3 50	483 00
Nathan Coryell,.....	Second do	313	2 50	782 50
Samuel T. Wright,.....	Second do	129	2 50	322 50
Luther Eno,.....	Second do	35	2 50	87 50
W. H. H. Gere,	Second do	158	2 50	395 00
"	Leveler,.....	78	2 00	156 00
"	Rodman,.....	77	1 75	134 75
Charles Earll,.....	Assistant and clerk,.....	59	2 00	118 00
Wm. Burke,.....	Draughtsman,.....	313	2 00	626 00
James McClure,	do '	5	2 00	10 00
Robert Burns,.....	Clerk,	75	1 50	112 50
Wm. A. Van Buskirk,.....	Rodman,	27	1 75	47 25
W. P. Bump,	do	21	1 25	26 25
Robert Hyslop,.....	Rodman,	211	1 25	263 75
"	do	79	1 50	118 50

S. D. Judah,	Rodman,	37	1 00	27 00
Wm. Dumont,	do	11	1 25	13 75
Thomas M. Sherman,	do	35	1 50	52 50
Daniel H. Thyme,	do	158	1 25	197 50
"	Axeman,	144	1 12½	162 00
John Barry,	do	4	1 12½	4 50
Joseph Eldred,	do	57	1 12½	64 12
"	do	122	1 25	152 50
Abm. Reynolds,	do	10½	1 00	10 50
Henry Paine,	do	4	1 00	4 00
Wm. Whitcomb,	do	7½	1 25	9 37
John Crawford,	do	15	1 00	15 00
Robert Bunage,	do	18	1 00	18 00
Henry Crosby,	do	18½	1 25	23 12
Edward Cody,	do	18½	1 25	23 13
David A. Allen,	Chainman,	28	1 12½	31 50
Wm. F. Knapp,	Tapeman,	2	1 12½	2 25
Peter Crawley,	do	5½	1 12½	6 19
John Donley,	do	5½	1 12½	6 19
George W. Robbins,	Flagman,	17½	1 12½	19 69
Charles W. Wentz,	Resident engineer, .....	.....	.....	1,130 08
"	Travel fees, .....	.....	.....	403 20
George Robbins,	Inspector, .....	.....	.....	317 25
Common labor,	Digging test pits, .....	.....	.....	187 93
Total, .....	.....	.....	.....	\$7,565 77

INCIDENTAL EXPENSES.

Stationery and printing,	\$134 59
Office rent, fuel and lights,	178 06
Postage and express,	18 62
Affidavits,	11 88
Extra services and traveling expenses paid sundry persons engaged in canvassing propositions, under a resolution of the Canal Board, passed Nov. 28th, 1851,	366 83
Total,	<u>\$709 48</u>

STATEMENT No. 2, A.—(CONTINUED.)

CAYUGA AND SENECA.

No. 90.]

109

NAMES.	Nature of service rendered.	Time employed.	Rate of compensation per day.	Amounts.
James Barnes,.....	Assistant engineer,.....	53	\$3 50	\$185 50
Samuel T. Wright,	2nd do	184	2 50	460 00
Luther Eno,.....	do and surveyor,	49	2 50	122 50
Robert Hyslop,.....	Rodman,	23	1 25	28 75
Thomas M. Sherman,	do	49	1 50	73 50
Wm. G. Van Clief,.....	do	6	1 50	9 00
John Murphy,	Axeman,	5	1 00	5 00
do	do	2	1 25	2 50
Thomas Killiher,	do	49	1 25	61 25
Roswell R. Marshall,.....	do	6	1 25	7 50
Henry Crosby,	do	6	1 25	7 50
Christopher Thompson,.....	Chainman,.....	7	1 12½	7 87
Jas. McGraw,	do	7	1 12½	7 88
Richard Curran,.....	do	4	1 12½	4 50
Alex. McDonald,.....	do	3	1 25	3 75
Anthony Cruel, Jr.,.....	do	2	1 25	2 50
Edward A. Fake,.....	do	1	1 25	1 25
Daniel J. Fulkerson,.....	do	2	1 25	2 50
Wm. H. Ellis,.....	Tapeman,	5	1 25	6 25
Thomas Crosby,	do	6	1 25	7 50

STATEMENT No. 2, A.--(CONTINUED.)

STATEMENT No. 2, A.—(CONTINUED.)

CROOKED LAKE.

Charles W. Wentz, Resident engineer,	\$14 24
do Travel fees,	9 36
	<hr/>
	\$23 60
	<hr/>

CHEMUNG.

Charles W. Wentz, Resident engineer,	\$48 44
do Travel fees,	20 76
Incidental expenses—Office rent, fuel, &c.,	57 13
	<hr/>
	\$126 33
	<hr/>

111

CHIEN ANGO.

Charles W. Wentz, Resident engineer,	\$72 17
do Travel fees,	44 52
	<hr/>
	\$116 69
	<hr/>

ABSTRACT

Of expenditures of the Engineer Department on the western sub-division of the middle division of the State canals, from January 1st, 1851, to January 1st, 1852.

FOR WHAT PURPOSE THE EXPENDITURES WERE MADE.

WHERE EXPENDED.	Engineering services proper.	Overseers and superintendents of mecl. work.	Labor sinking test pits.	Stationery and printing.	Office rent, fuel, lights, and cleaning office.	Postage, tele-graph and ex-press charges.	Attavails.	Traveling ex-penses.	Miscellaneous expenses.	Extra services & expenses can-nas'g propo-sals by auth'y of Civ. Board.	Total.
Erie canal enlargement,	\$6,657 39	\$317 25	\$167 93	\$134 59		\$18 62	\$11 38	\$403 20		\$386 83	\$8,275 25
Cayuga and Seneca,	1,222 57							47 76	\$1 50		1,271 83
Crooked Lake,	14 24							9 36			23 60
Chemung,	48 44							20 76			126 33
Chenango,	72 17							44 52			116 69
	\$8,014 81	\$317 25	\$167 93	\$134 59	\$235 19	\$18 62	\$11 38	\$525 60	\$1 50	\$386 83	\$9,813 70

R E P O R T
OF
JEROME B. STILLSON,
DIVISION ENGINEER UPON THE WESTERN DIVISION
OF THE NEW-YORK STATE CANALS.
JANUARY, 1852.



REPORT.

To Hon. H. C. SEYMOUR, *State Engineer and Surveyor* :

Sir,—In compliance with “the regulations,” I have the honor to submit the following report, showing the number and compensation of the engineers employed during the preceding year, the present condition of the western division of the State canals, and the estimated cost of completing the same.

The western division comprizes as follows, viz: The Erie canal from the east line of Wayne county to Buffalo, including the Main and Hamburg street canal, slips and basins at that place, and when enlarged, will be, (miles in length,).....	144
The Genesee Valley canal, finished and unfinished with side cut, is	118
Total number of miles,.....	162

Enlargement of the Erie canal.

All the work required to complete the enlargement of the Erie canal is now under contract.

Work to be done on old contracts, Jan. 1st, 1852,..	\$676,570 99
Work contracted for Dec. 29th, 1851, as per estimates made out for the contracting board,.....	4,966,574 18

Genesee Valley canal.

Work remaining to be done on old contracts January 1st, 1852,.....	323,797 78
Work contracted Dec. 29th, 1851,	149,570 00
Add work not under contract, (engineers' estimate,)	44,000 00
Total cost to complete western division,.....	\$6,160,512 95

The following tabular statement, explanations and suggestions, it is believed, will be found to embrace the subjects and supply the information required as per act, chap. 377, Laws of 1850.

Estimates, cost, increase, &c.

The estimated cost of completing the whole western division as shown in the State Engineer and Surveyor's report to the Legislature, February 7th, 1851, amounts to the sum of \$6,217,052 67

The estimated cost of completing the same as per

preset report is,..... \$6,160,512 95

Add payment made on work done

since Jan. 1st, 1851,..... 521,361 55

\$6,681,874 50

Excess of present over last year's estimate, \$464,821 83

Cost increased by Canal Board on work adopted and changes made in 1851.

By adopting independent line east of

Rochester,..... \$427,603 05

By adopting indep't line at Holley,.. 12,000 00

By adopting iron bridges and stone abutments, (1st sub-division,) 209,500 00

By adopting iron bridges and stone abutments and change of line, (2d sub-division,) 39,992 00

By removal of feeder lock at Rochester,..... 11,197 00

By change of plan for Erie breakwater,..... 30,200 90

By change of excavating price as per Act of Legislature on contracts on sections 11, 12, 13 and 14 Mountain ridge,..... 77,248 50

By change of plans, allowances, &c, G. V. canal,.... 27,000 00

\$834,741 46

Engineering.

The expenditures of the same on the western division, independent of labor required on contracts in progress during the past year, has been necessarily great.

One hundred and fifty miles of canal have been minutely surveyed and located, and maps, profiles, admeasurements, specifications, estimates and bills of material prepared in full detail for the entire work.

Extensive preliminary examinations and estimates have been required at several places on the line preparatory to a final location of the same.

The "law and regulations" defining the duties of the Engineer Department, require that two sets of maps be made, viz: "maps of location" and "maps of lettings," giving, in minute and accurate detail, the exact boundaries and areas of appropriations for the canal, the lines of lots, names of owners, with the topography of the country, defining the streams and mechanical structures, the location of public and private roads, with buildings &c., coming within the enlargement boundaries. The same minute detail is also required for the places, profiles, estimates, bills of material, &c.,

Besides the above, triplicate copies of all the maps, plans and estimates have been made, one for State Engineer and Surveyor, one for the division engineer and one for the resident engineer's offices. A large proportion of this work has been done since the close of the extra session of the Legislature, and under a pressure of demand so great as to render an economical use of labor at all times, impossible.

In addition to the above, the Canal Board required the labor of the division during and after the letting to be transferred to the city of Albany, which has added several thousand dollars extra to the expenditures of the year. The office, stationery and travelling expenses, have been for the above reasons correspondingly increased.

TABULAR STATEMENT

Of engineering expenses on the 1st sub-division of the Western division of the State canals for the year 1851.

DANIEL MARSH, RESIDENT ENGINEER.

Names.	Nature of duties.	Days employed.	Compensation allowed. Per year. Per day.	Amounts.	Totals.
Daniel Marsh.....	Resident engineer, .....	...	\$1,500 00 Per day.	\$1,500 00	
do.....	Traveling .....	...	.....	283 26	
do.....	Extra allowance by Canal Board,....	40	2 00	80 00	\$1,868 26
Richard Vernam....	1st assistant engineer,.....	326	3 50	\$1,141 00	
do.....	Extra allowance, by Canal Board,....	32	2 00	64 00	
do.....	Travelling,.....	...	.....	40 44	118
					1,245 44
Benjamin B. Hart..	1st assistant engineer,.....	113	3 50	395 50	
do.....	Extra allowance,.....	43	2 00	86 00	
do.....	Travelling, by Canal Board,.....	...	.....	10 20	491 70
E. C. Clarke,.....	1st assistant engineer,.....	319	3 50	1,116 50	
do.....	Extra allowance, by Canal Board,....	37	2 00	74 00	
do.....	Travelling, .....	...	.....	108 23	1,298 73
Ely S. Parker,.....	1st and 2d assistant engineer,.....	323	\$2 50 to 3 50	896 50	
do.....	Extra allowance, by Canal Board,....	43	2 00	86 00	
do.....	Travelling,.....	...	.....	32 10	1,014 60
					[ASSEMBLY

R. H. Colburn,.....	2d assistant engineer,.....	319	2 50	797 50	797 50
C. Q. Newcombe,...	2nd ass't engineer,.....	314	2 50	785 00	
do	Extra allowance,.....	30	2 00	60 00	
do	Travelling, by Canal Board,.....			10 82	
Henry F. Hart,	2nd ass't engineer,.....	320	2 50	\$800 00	855 82
do	Extra allowance,.....	41	2 00	82 00	
dy	Travelling, by Canal Board,.....			10 20	
Hathaway Hurd,....	2nd ass't engineer,.....	261	2 50	652 50	892 20
C. G. Voorhees,.....	do	198	2 50	495 00	652 50
do	Extra allowance, by Canal Board, ...	37	2 00	74 00	
do	Travelling,.....			32 77	
D. H. Ainsworth,...	2nd ass't engineer and leveller,.....	291	2 to 2 50	653 50	601 77
James A. Case,.....	do in office,.....	98	2 50	245 00	653 50
do	Extra allowance,.....	40	2 00	80 00	
do	Travelling, by Canal Board,.....			10 20	
Edward Everett,....	2nd ass't engineer,.....	44	2 50	110 00	335 20
do	Extra allowance, by Canal Board....	41	2 00	82 00	
do	Travelling, do do			7 10	
J. N. Green,.....	2d assistant engineer,	26	2 50	65 00	199 10
do	Extra allowance,.....	26	2 00	52 00	
do	Travelling, by Canal Board,.....			10 20	127 20

STATEMENT—(CONTINUED.)

				120	[ASSEMBLY
Names.	Nature of duties.	Days employed.	Compensation allowed. Per day.	Amounts.	Totals.
W. H. C. Abell,	2d assistant engineer,	121	2 50	302 50	302 50
D. C. Shephard, . . . . .	.....	166	2 50	415 00	
do	}	33	2 00	66 00	
do	} by Canal Board,			10 20	
A. M. Leach, . . . . .	.....	319	2 50	797 50	491 20
do . . . . .	.....	41	2 00	82 00	
do	} by Canal Board,			10 82	
Gustus Berger,	Draftsman,	32	2 50	80 00	890 32
Fredk. Buckeridge,	do	81	\$2 to 2 25	172 75	80 00
Chas. Pirmey,	do	140	2 25	315 00	172 75
John Flynn,	do	129	2 50	322 50	315 00
Wm. Flynn,	do	97	\$2 to 2 25	214 50	322 50
Geo. Arnoldt,	do and leveller,	103	\$1.50 to 2	185 00	214 50
A. W. Riley,	Draftsman,	98	1 75	171 50	185 00
do	Extra allowance, by Canal Board,	34	2 00	68 00	
do	Traveling, do . . . . .	...	....	10 20	
John Dumble,	Draftsman,	38	2 00	76 00	249 70
H. M. Ellsworth,	Assistant in office, and rodman,	314	1,37 1/4 to 1 75	492 50	
do	Extra allowance by Canal Board,	36	2 00	72 00	
do	Traveling, do . . . . .	...	....	10 20	574 70

Andrew Soverhill, ..	Assistant in office,	3	1 50	4 50	4 50
Rudd,	do	4	1 50	6 00	6 00
Hugh Jameson, Jr. . .	do	4	1 50	6 00	6 00
Melvorn Goodrich, ..	do	3	1 50	4 50	4 50
Hubbell Watrous, ..	do and tapeman,	26	1 50 & 1 25	33 50	33 50
A. W. Dains,	do	7	2 00	14 00	14 00
John Atwood,	do	6	2 00	12 00	12 00
Benj. Burton,	do	13	3 75	48 75	48 75
John Wigglesworth, ..	do	9	3 50	31 50	31 50
M. Jameson,	do	4	1 50	6 00	6 00
Smith Goodrich,	do	4	1 50	6 00	6 00
T. H. Garitt,	Assistant in office,	133	1 50 to 1 75	\$220 00	
do	Extra allowance by Canal Board,	35	2 00	70 00	
do	Traveling, do .....	...	....	10 34	
				<hr/>	300 34
J. C. Schermerhorn,	Assistant in office,	130	1 50 to 1 75	215 25	
do	Extra allowance by Canal Board,	40	2 00	80 00	
do	Traveling, do .....	...	....	10 20	
				<hr/>	305 45
A. S. Harris,	Assistant in office,	68	2 00	136 00	
do	Extra allowance, by Canal Board,	35	2 00	70 00	
do	Travelling, do .....	...	....	10 20	
				<hr/>	216 20
L. R. P. Stockton, ..	Assistant in office,	137	1 75 to 2 00	261 00	
do	Extra allowance by Canal Board,	41	2 00	82 00	
do	Traveling, do .....	...	....	10 82	
				<hr/>	353 82

STATEMENT—(CONTINUED.)

Names.	Nature of duties.	Days employed.	Compensation allowed. Per day.	Totals.	Amounts.	120	[ASSEMBLY
Byron Holley,	Assistant in office,	134	1 50 to 1 75	231 50			
do	Extra allowance by Canal Board,	88	2 00	76 00			
do	Traveling do . . . . .	...	....	17 39			
				314 89			
L. D. Ireland,	Assistant in office,	110	1 25 to 1 75	176 50			
do	Extra allowance by Canal Board,	33	2 00	66 00			
do	Traveling, do . . . . .	...	....	10 09			
				252 59			
Wm. Bloss,	Assistant in office,	96	1 50 to 2 00	170 00			
John M. Carey,	Ass't in office and chainman,	132	1 25 & 1 50	185 75			
do	Extra allowance,	37	2 00	74 00			
do	Travelling, by Canal Board,			11 59			
				271 34			
William S. Burns,	Assistant in office,	148	1 50 & 1 75	242 25			
do	Extra allowances,	40	2 00	80 00			
do	Travelling, by Canal Board,			10 55			
				332 80			
N. H. Parker,	Ass't in office and ass't leveller,	81	1 75 & 2 00	149 00			
J. W. Adams,	Ass't in office and rodman,	155	1 50 & 2 00	273 50			
do	Extra allowance,	40	2 00	80 00			
do	Canal Board,			10 20			
				363 70			
Saml. P. Burrill,	Assistant in office,	91	1 50	136 50			
H. A. Blyth,	Leveller,	250	1 75 & 2 00	497 75			
do	Extra allowance,	40	2 00	80 00			
do	Travelling, by Canal Board,			10 20			
				587 95			

Albert Ball,	Leveller,	121	1 75	211 75	358 75
do	Rodman,	98	1 50	147 00	517 50
H. C. Ruggles,	Leveller and rodman,	262	1.75 to 2	517 50	630 00
Labern H. Spencer, ..	Leveller,	315	2 00	630 00	59 50
B. M. Hanks,	Surveyor,	34	1 75	59 50	70 00
D. F. Curtis,	S. m. work,	28	2 50	70 00	40 00
Jas. McCormick,	Superintendent,	20	2 00	40 00	17 50
E. P. Taft,	Rodman,	14	1 25	17 50	103 75
Chas. Gaul,	do	83	1 25	103 75	262 88
S. D. Newcombe,	do	185½	\$1 25 & 1 50	262 88	100 00
Thos. F. Goodrich, ..	do	71	1 25 & 1 50	100 00	50 00
G. W. Samson,	do	40	1 25	50 00	
Jno. H. Follett,	do	123	\$1 25 & 1.50	173 50	
do	Extra allowance, }	12	2 00	24 00	
do	Travelling, }			11 84	
C. L. Curtis,	Rodman and chairman,	143	\$1 25 & 1 50	191 75	209 34
J. S. Blyth,	Rodman,	29	1 25	36 25	191 75
Henry Jones,	do	2	1 25	2 50	36 25
Jas. Campbell,	do	5	1 50	7 50	2 50
H. F. Tower,	do	2	1 25	2 50	7 50
Jas. Van Derhoff,	do	2½	1 25	3 13	2 50
S. G. Mirick,	do	½	1 25	63	3 13
Jno. Wilmyre,	Tapeman,	3½	1 25	4 37	63
Elihu Hinman,	do	3	1 25	3 75	4 37
Jas. Harris,	do	16	1 25	20 00	3 75
				20 00	20 00

TALULAR STATEMENT—(CONTINUED.)

Names.	Nature of duties.	Days employed.	Compensation allowed. Per day.	Amounts.	Totals.
H. J. Rogers,	Tapeman,	36	1 25	45 00	45 00
J. P. Drake,	do	60	1 25	75 00	75 00
H. F. Shepard,	do	27	1 25	33 75	33 75
T. E. Ellsworth,	do	15	1 25	18 75	18 75
N. Ruggles,	do . . . . .	...	....	....	27 50
Jno. E. Ryan,	Chairman,	85	1 25	106 25	106 25
W. H. Maynard,	do	5	1 25	6 25	6 25
W. P. Nottingham,	do	39½	1 25	49 38	49 38
C. F. Perrin	do	19	1 25&1 50	25 50	25 50
S. B. Wilmarth,	do	100	1 25	125 00	125 00
Chas. Van Gorder,	do	62	1 25	77 50	77 50
P. Babcock,	do	6	1 25	7 50	7 50
J. C. Carey,	do	10	1 50	15 00	15 00
Carlton Lakey,	do	2	1 25	2 50	2 50
W. W. Miller,	do	1	1 25	1 25	1 25
Peter Sherman,	do	1	1 50	1 50	1 50
Jno. Sherman,	do	1	1 50	1 50	1 50
Wm. Nichols,	Axeman,	3	1 to 1 50	4 00	4 00
Jno. Snedaker,	do	44½	1 25	55 63	55 63
Jno. Strogan,	do	14	1 25	17 50	17 50
Chas. Berry,	do	35	1 25	43 75	43 75
James Morana,	Axeman,	2	1 25	2 50	2 50
S. D. Kimball,	do	98½	1 00 to 1 25	122 50	122 50
John Sampson,	do	81	1 25	38 75	38 75

TABULAR STATEMENT

Of Engineering expenses for the year 1851, on the Western division of the New-York State canals.

JOHN LATHROP, RESIDENT, 2D SUB-DIVISION.

Names.	Kind of service.	Time em- ployed. Year.	Rates of compensation.	Travel.	Amounts.
John Lathrop,	Resident engineer,	1	\$1,500 00		\$1,500 00
do	(Travel,)			\$566 78	566 78
Edw. Colman,	2d assistant,	Days. 319	2 50	....	797 50
do	(Travel,) .....	....	....	50 20	50 20
Stephen F. Gooding, ..	do	262	2 50	....	655 00
do	(Travel,) .....	....	....	20 40	20 40
Henry Pomeroy,	do	167	2 50	....	417 50
do	(Travel,) .....	....	....	14 98	14 98
Theo. Williams,	Assistant,	118	3 50	....	413 00
do	(Travel,) .....	....	....	5 25	5 25
Stationery, .....	.....	....	....	....	370 90
Fuel, .....	.....	....	....	....	47 75
Light, .....	.....	....	....	....	39 02
Office rent, .....	.....	....	....	....	229 42
Postage & telegraph, ..	.....	....	....	....	86 16
Henry A. Blythe, ...	Leveller,	38	1 75	....	66 50
S. P. Hamilton,	do	130	1 75	....	227 50
G. C. Hamilton,	do	97	2 00	....	194 00
do	(Travel,) .....	....	....	5 25	5 25
John Dougherty,	do	39	1 75	....	68 25

John Dougherty,....	Leveller,.....	79	2 00	....	158 00
do	(Travel,) .....	....	....	9 35	9 35
Stephen G. Phillips, do	.....	82	1 37½	....	138 25
Stephen A. Charles, do	.....	79	1 75	....	138 25
do	.....	....	....	3 72	3 72
Jay Johnson, Draughtsman, do	.....	155	1 75	....	271 25
do	.....	79	2 00	....	158 00
do	.....	86	2 25	....	193 50
do	(Travel,) .....	....	....	103 86	103 86
Julian Hularuski, do	.....	262	2 00	....	524 00
B. Thornton, do	.....	3	1 00	....	3 00
E. V. Mathias, do	.....	15	1 50	....	22 50
John Bisgood, do	.....	98	3 00	....	294 00
do	(Travel,) .....	....	....	95 20	95 20
Wm. S. Watson, do	.....	93	2 25	....	209 25
Wm. Hartly, Surveyor, .....	.....	107	2 00	....	214 00
Theo. W. Rumble, Surveyor, .....	.....	54	2 00	....	11 00
do do	(Travel,) .....	....	....	2 50	2 50
Thos. Pitngal, Draughtsman, .....	.....	84	2 50	....	210 00
do	(Travel,) .....	....	....	129 20	129 20
John H. McAlvine, do	.....	66	1 50	....	99 00
Alfred W. Barrett, Rodman, .....	.....	183	1 25	....	228 75
do	.....	72	1 50	....	108 00
Stephen A. Charles do	.....	183	1 25	....	228 75
Stephen G. Phillips, do	.....	60	1 50	....	90 00
H. H. Alling, do	.....	141	1 12½	....	158 63
Saml. S. Potter, do	.....	38	1 12½	....	42 75

TABULAR STATEMENT—(CONTINUED.)

NAMES.	Kind of service.	Time em- ployed. Days.	Rates of com- pensation.	Travel.	Amounts.
Saml. S. Potter, Rodman,	97	1 25	....	98 75
Howard Cockburn, do	77	1 25	....	96 25
do do (Travel,)	103 20	103 20
M. La Fayette Varney, Rodman,	79	1 50	....	118 50
do do (Travel,)	103 20	103 20
Thos. M. Griffith, do	51	1 25	....	73 75
do do (Travel,)	99 20	99 20
John M. Fouquet, Rodman,	60	1 25	....	75 00
do do (Travel,)	99 20	99 20
Henry M. Lathrop, Tapeman,	5	62½	....	3 13
Daniel P. Risley, Chainman,	94	1 12½	....	105 74
Charles F. Church, do	54	1 00	....	54 00
John A. Lighthall, do	11	1 00	....	11 00
do do	82	1 12½	....	92 25
do do (Travel,)	100 00	100 00
Eben H. Smith, do	82	1 12½	....	92 25
Owen E. O'Maley, do	117	1 12½	....	131 63
James Lundigan, do	8	1 12½	....	9 00
Albert Ernst, Axeman,	155	1 00	....	155 00
do do	158	1 12½	....	177 75
Smith Reynolds, do	262	1 00	....	262 00
Patrick Finnegan, Axeman,	17	1 00	....	17 00
Reuben C. Olcott, do	52	1 00	....	52 00
Newton T. Smith, do	49	1 00	....	49 00

Enos Mather,	do	82	1 00	...	82 00
Jonas Garter,	do	87	1 00	...	87 00
Lewis B. Lott, Flagman,	...	21	1 00	...	21 00
Jerome B. Woodford, Superintendent of mechanical work,	...	130	2 25	...	292 50
Richard Willing,	do	179	2 00	...	358 00
Wm. Leslie, Inspector of masonry,	...	31	2 00	...	62 00
Danl. F. Curtiss, do	...	64	2 50	...	160 00
Edward P. Weld, Superintendent,	...	16	1 50	...	24 00
Newton T. Smith, do	...	83	1 12½	...	93 38
Reuben C. Oleott, do	...	79	1 00	...	79 00
Civilian Reynolds, do	...	25	1 25	...	31 25
Labor,	...			...	319 29
Miscellaneous,	...			...	147 37
Total,	...			...	\$13,622 66

STATEMENT—(CONTINUED.)

Names.	Nature of duties.	Days employed.	Compensation allowed. Per day.	Amounts.	Totals.
Byron Holley,	Assistant in office,	134	1 50 to 1 75	231 50	
do	Extra allowance by Canal Board,	38	2 00	76 00	
do	Traveling do do . . . . .	...	....	17 39	314 89
L. D. Ireland,	Assistant in office,	110	1 25 to 1 75	176 50	
do	Extra allowance by Canal Board,	33	2 00	66 00	
do	Traveling, do do . . . . .	...	....	10 09	252 59
Wm. Bloss,	Assistant in office,	96	1 50 to 2 00	170 00	
John M. Carey,	Ass't in office and chairman,	132	1 25 & 1 50	185 75	
do	Extra allowance,	37	2 00	74 00	
do	Travelling, by Canal Board,			11 59	271 34
William S. Burns, ..	Assistant in office,	148	1 50 & 1 75	242 25	
do	Extra allowance,	40	2 00	80 00	
do	anal Board,			10 55	332 80
N. H. Parker,	Ass't in office and ass't leveller,	81	1 75 & 2 00	149 00	
J. W. Adams,	Ass't in office and rodman,	155	1 50 & 2 00	273 50	
do	Extra allowance,	40	2 00	80 00	
do	Travelling, by Canal Board,			10 20	363 70
Saml. P. Burrill, ...	Assistant in office,	91	1 50	136 50	
H. A. Blyth,	Leveller,	250	1 75 & 2 00	497 75	
do	Extra allowance,	40	2 00	80 00	
do	Travelling, by Canal Board,			10 20	587 95

Albert Ball,	Leveller,	121	1 75	211 75	358 75
do	Rodman,	98	1 50	147 00	517 50
					630 00
H. C. Ruggles,	Leveller and rodman,	262	1.75 to 2	517 50	59 50
Labern H. Spencer, ..	Leveller,	315	2 00	630 00	70 00
B. M. Hanks,	Surveyor,	34	1 75	59 50	40 00
D. F. Curtis,	S. m. work,	28	2 50	70 00	17 50
Jas. McCormick,	Superintendent,	20	2 00	40 00	103 75
E. P. Taft,	Rodman,	14	1 25	17 50	262 88
Chas. Gaul,	do	83	1 25	103 75	100 00
S. D. Newcombe,	do	185½	\$1 25 & 1 50	262 88	50 00
Thos. F. Goodrich, ..	do	71	1 25 & 1 50	100 00	
G. W. Samson,	do	40	1 25	50 00	
Jno. H. Follett,	do	123	\$1 25 & 1.50	173 50	
do	Extra allowance, }	12	2 00	24 00	
do	Travelling, }			11 84	
C. L. Curtis,	Rodman and chairman,	143	\$1 25 & 1 50	191 75	209 34
J.S. Blyth,	Rodman,	29	1 25	36 25	191 75
Henry Jones,	do	2	1 25	2 50	36 25
Jas. Campbell,	do	5	1 50	7 50	2 50
H. F. Tower,	do	2	1 25	2 50	7 50
Jas. Van Derhoff,	do	2½	1 25	3 13	2 50
S. G. Mirick,	do	1½	1 25	63	3 13
Jno. Wilmyre,	Tapeman,	3½	1 25	4 37	63
Elihu Hinman,	do	3	1 25	3 75	4 37
Jas. Harris,	do	16	1 25	20 00	3 75
					20 00

TALULAR STATEMENT—(CONTINUED.)

Names.	Nature of duties.	Days employed.	Compensation allowed. Per day.	Amounts.	Totals.
H. J. Rogers,	Tapeman,	36	1 25	45 00	45 00
J. P. Drake,	do	60	1 25	75 00	75 00
H. F. Shepard,	do	27	1 25	33 75	33 75
T. E. Ellsworth,	do	15	1 25	18 75	18 75
N. Ruggles,	do .....	...	....	....	27 50
Jno. E. Ryan,	Chairman,	85	1 25	106 25	106 25
W. H. Maynard,	do	5	1 25	6 25	6 25
W. P. Nottingham, ..	do	39½	1 25	49 38	49 38
C. F. Perrin	do	19	1 25&1 50	25 50	25 50
S. B. Wilmarth,	do	100	1 25	125 00	125 00
Chas. Van Gorder, ...	do	62	1 25	77 50	77 50
P. Babcock,	do	6	1 25	7 50	7 50
J. C. Carey,	do	10	1 50	15 00	15 00
Carlton Lakey,	do	2	1 25	2 50	2 50
W. W. Miller,	do	1	1 25	1 25	1 25
Peter Sherman,	do	1	1 50	1 50	1 50
Jno. Sherman,	do	1	1 50	1 50	1 50
Wm. Nichols,	Axeman,	3	1 to 1 50	4 00	4 00
Jno. Snedaker,	do	44½	1 25	55 63	55 63
Jno. Strogan,	do	14	1 25	17 50	17 50
Chas. Berry,	do	35	1 25	43 75	43 75
James Morana,	Axeman,	2	1 25	2 50	2 50
S. D. Kimball,	do	98½	100 to 125	122 50	122 50
John Sampson,	do	81	1 25	38 75	38 75

TABELAR STATEMENT

Of Engineering expenses for the year 1851, on the Western division of the New-York State canals.

JOHN LATHROP, RESIDENT, 2D SUB-DIVISION.

Names.	Kind of service.	Time em- ployed. Year.	Rates of compensation.	Travel.	Amounts.
John Lathrop,	Resident engineer,	1	\$1,500 00		\$1,500 00
do	(Travel,)			\$566 78	566 78
Edw. Colman,	2d assistant,	Days. 319	2 50	....	797 50
do	(Travel,) .....	....	....	50 20	50 20
Stephen F. Gooding, ..	do	263	2 50	....	655 00
do	(Travel,) .....	....	....	20 40	20 40
Henry Pomeroy,	do	167	2 50	....	417 50
do	(Travel,) .....	....	....	14 98	14 98
Theo. Williams,	Assistant,	118	3 50	....	413 00
do	(Travel,) .....	....	....	5 25	5 25
Stationery, .....	.....	....	....	....	370 90
Fuel, .....	.....	....	....	....	47 75
Light, .....	.....	....	....	....	39 02
Office rent, .....	.....	....	....	....	229 42
Postage & telegraph, ..	.....	....	....	....	86 16
Henry A. Blythe, ...	Leveller,	38	1 75	....	66 50
S. P. Hamilton,	do	130	1 75	....	227 50
G. C. Hamilton,	do	97	2 00	....	194 00
do	(Travel,) .....	....	....	5 25	5 25
John Dougherty,	do	39	1 75	....	68 25

John Dougherty,....	Leveller,.....	79	2 00	....	158 00
do	(Travel,) .....	....	....	9 35	9 35
Stephen G. Phillips, do	.....	82	1 37½	....	133 25
Stephen A. Charles, do	.....	79	1 75	....	138 25
do	.....	....	....	3 72	3 72
Jay Johnson, Draughtsman, .....	.....	155	1 75	....	271 25
do do	.....	79	2 00	....	158 00
do do	.....	86	2 25	....	193 50
do do	(Travel,) .....	....	....	103 86	103 86
Julian Hularuski, do	.....	262	2 00	....	524 00
B. Thornton, do	.....	3	1 00	....	3 00
E. V. Mathias, do	.....	15	1 50	....	22 50
John Bisgood, do	.....	98	3 00	....	294 00
do do	(Travel,) .....	....	....	95 20	95 20
Wm. S. Watson, do	.....	93	2 25	....	209 25
Wm. Hartly, Surveyor, .....	.....	107	2 00	....	214 00
Theo. W. Rumble, Surveyor, .....	.....	5½	2 00	....	11 00
do do do	(Travel,) .....	....	....	2 50	2 50
Thos. Pitingal, Draughtsman, .....	.....	84	2 50	....	210 00
do do	(Travel,) .....	....	....	129 20	129 20
John H. McAlvine, do	.....	66	1 50	....	99 00
Alfred W. Barrett, Rodman, .....	.....	183	1 25	....	228 75
do do	.....	72	1 50	....	108 00
Stephen A. Charles do	.....	183	1 25	....	228 75
Stephen G. Phillips, do	.....	60	1 50	....	90 00
H. H. Alling, do	.....	141	1 12½	....	158 63
Saml. S. Potter, do	.....	38	1 12½	....	42 75

TABULAR STATEMENT—(CONTINUED.)

NAMES.	Kind of service.	Time employed. Days.	Rates of compensation.	Travel.	Amounts.
Saml. S. Potter, Rodman,	.....	97	1 25	....	98 75
Howard Cockburn, do	.....	77	1 25	....	96 25
do do (Travel,)	(Travel,) .....	....	...	103 20	103 20
M. La Fayette Varney, Rodman,	.....	79	1 50	....	118 50
do do (Travel,)	(Travel,) .....	....	....	103 20	103 20
Thos. M. Griffith, do	.....	51	1 25	....	73 75
do do (Travel,)	(Travel,) .....	....	....	99 20	99 20
John M. Fouquet, Rodman,	.....	60	1 25	....	75 00
do do (Travel,)	(Travel,) .....	....	....	99 20	99 20
Henry M. Lathrop, Tapeman,	.....	5	62½	....	3 13
Daniel P. Risley, Chainman,	.....	94	1 12½	....	105 74
Charles F. Church, do	.....	54	1 00	....	54 00
John A. Lighthall, do	.....	11	1 00	....	11 00
do do	.....	82	1 12½	....	92 25
do do (Travel,)	(Travel,) .....	....	....	100 00	100 00
Eben H. Smith, do	.....	82	1 12½	....	92 25
Owen E. O'Maley, do	.....	117	1 12½	....	131 63
James Lundigan, do	.....	8	1 12½	....	9 00
Albert Ernst, Axeman,	.....	155	1 00	....	155 00
do do	.....	158	1 12½	....	177 75
Smith Reynolds, do	.....	262	1 00	....	262 00
Patrick Finnegan, Axeman,	.....	17	1 00	....	17 00
Reuben C. Olcott, do	.....	52	1 00	....	52 00
Newton T. Smith, do	.....	49	1 00	....	49 00

Enos Mather, do	82	1 00	82 00
Jonas Garter, do	87	1 00	87 00
Lewis B. Lott, Flagman,	21	1 00	21 00
Jerome B. Woodford, Superintendent of mechanical work,	130	2 25	292 50
Richard Willing, do	179	2 00	358 00
Wm. Leslie, Inspector of masonry,	31	2 00	62 00
Danl. F. Curtiss, do	64	2 50	160 00
Edward P. Weld, Superintendent,	16	1 50	24 00
Newton T. Smith, do	83	1 12½	93 38
Reuben C. Olcott, do	79	1 00	79 00
Civilian Reynolds, do	25	1 25	31 25
Labor,			319 29
Miscellaneous,			147 37
Total,			<u>\$13,622 66</u>

STATEMENT of persons employed in the Engineer's department on the middle sub-division of the western division of the Erie canal enlargement, from January 1st to February 28th, inclusive, 1851.

NAMES.	Kind of service.	From	To	Days employed.	Rate of compensation.	Amount.
Stephen F. Gooding,	2d ass't engineer,	Jan. 1,	Feb 28,	51	\$2 50	\$127 50
Henry Pomeroy,	do	do	do	51	2 50	127 50
Hathaway Hurd,	do	do	do	51	2 50	127 50
Chas. B. Morse,	Engineer, and ass't in office,	do	do	51	2 00	102 00
Julian Hulaniski,	Draughtsman,	do	do	51	2 00	102 00
Henry C. Ruggles,	Leveler,	do	do	51	1 50	76 50
Henry A. Blythe,	Assistant in office,	do	Jan. 29	25	2 00	50 00
do	Leveler,	Feb. 5.	Feb. 28,	21	1 50	31 50
George F. Newcomb,	Rodman,	Jan. 1.	" 1,	28	1 25	35 00
Samuel Barrett,	Chainman,	do	" 11,	36	1 00	36 00
Stephen A. Charles,	Rodman,	do	" 28,	51	1 25	63 75
Alfred W. Barrett,	Assistant in office,	do	do	51	1 25	63 75
Smith Reynolds,	Axeman,	do	do	51	1 00	51 00
Erastus Hurd,	Engineer and draughtsman,	do	Feb. 22,	46	3 50	161 00
Theophilus Williams,	Engineer,	do	Jan. 29,	25	3 50	87 50
Resident Engineer's travel, 972 miles, at 6 cts,						58 32
Miscellaneous expenditures,						84 77
Two-thirds of one quarter's salary, at \$1,500 per year,						250 00
						<u>\$1,635 59</u>

Payments have been made and vouchers rendered for the several amounts above, except No. 8, for \$31.50. DAVIS HURD, Res't Engineer.
 Engineer's Office, Lockport, March 1, 1851

STATEMENT

Showing the number and compensation of the Engineers employed on the Genesee Valley canal, during the year ending on the 31st day of December, 1851.

Names.	Station.	Days empl'd.	price per annum.	Am't for travel.	Compensation amount.
O. W. Storey,....	Res'dt eng'r	1 y'r	\$1,500	\$472 50	\$1,500 00
			per day.		
William Mullin,.	1st as'st eng,	321	3 50	6 85	1,123 50
extra,....		46	2 00		92 00
Henry A. Smith,	do	141	3 50	16 40	493 50
extra,....		12	2 00		24 00
Benj. B. Hart,...	do	5	3 50		17 50
do	2d do	205	2 50		512 50
Jas. O. Hudnut,.	do	369	2 50	13 65	772 50
extra,....	do	11	2 00		22 00
D. C. Shepard, ..	do	74	2 50		185 00
J. N. Green,	do	79	2 50		197 50
J. A. Ditto,	do	79	2 50		197 50
H. R. Dutton,...	do	79	2 50		197 50
Geo. W. White,.	do	79	2 50		197 50
Wm. Rumble, ..	do surv.	298	2 50		745 00
H. M. Severance,	do	76	2 50		190 00
John A. Ditto, ..	Leveler,...	231	2 00		462 00
Geo. W. White, ..	do	234	2 00		468 00
Geo. E. Waters,.	do	173	2 00		348 00
J. B. Ward,	do	293	2 00	16 80	586 00
extra,....	do	23	2 00		46 00
John Severance,.	do	108	1 50		162 00
do	do	79	1 75		138 25
H. R. Dutton,...	do	35	2 00		70 00
W. L. Storke,...	do	93	2 00		186 00
Geo. W. Pomeroy,	do	79	1 75		138 25
James Jenks,....	do	87	1 75		152 25

Names.	Station.	Days empl'd.	price per annum.	Am't for travel.	Compensation- amount.
James Jenks,	Leveler, extra,	44	2 00		88 00
H. E. Brown,...	do	79	2 00		158 00
James Jenks, ...	Rodman, ..	234	1 50		351 00
Geo. W. Pomeroy,	do	234	1 50		351 00
H. E. Brown,...	do	36	1 50		54 00
B. B. Thomas, ..	do	79	1 50		118 50
Willard Porter, .	do	20	1 37½		27 50
do	do	79	1 50		118 50
Robert Orton,...	do	34	1 00		34 00
do ...	do	79	1 10		86 90
C. H. Wizner,...	do	2	1 25		2 50
George Porter, ..	do	79	1 10		86 90
Miner H. Cobb, .	do	76	1 10		83 60
do ...	Chainman,	14	1 00		14 00
George Porter, ..	do	4	1 00		4 00
G. D. Ellithrop,.	do	6	1 25		7 50
Elam Ellithrop,.	do	2	1 25		2 50
A. G. Willard,...	Axeman, ...	6	1 00		6 00
do ..	do	13	1 25		16 25
J. H. Camp,	do	9	1 25		11 25
Andw. Kingsley,	do	½	1 25		00 63
W. C. Smith,...	do	4½	1 00		4 50
David Vass,	do	1	1 00		1 00
Geo. Kingsley, ..	do	20	1 00		20 00
do ..	do	75	1 10		82 50
Abram Vernan,...	do	11	1 00		11 00
John Kern,	do	17	1 00		17 00
do	do	79	1 10		86 90
Henry Clark, ...	do	5¼	1 00		5 25
E. O. Freeman,...	do	½	1 00		50
Geo. W. Ransom,	do	5	1 25		7 25
A. J. Bloom,	do	15½	1 25		19 37
W. R. Bronson, ..	do	3	1 25		3 75
Philetus Ingols, .	do	1	1 00		1 00
W. B. Rice,	do	1	1 25		1 25
C. G. Chamberlain	do	½	1 00		50
H. C. Blakeslee, .	do	1	1 00		1 00
Abram Farwell, .	do	2	1 00		2 00

Names.	Station.	Days empl'd.	price per annum.	Am't for travel.	Compensation amount.
Chas. Pierce,....	Axeman, ..	79	1 00		79 00
James Mullins,..	Draftsman,	309	1 75		540 75
Wm. S. Watson,.	do	210	2 00		420 00
Thos. Daly,.....	Office clerk,	316	2 00	13 70	632 00
extra,....	do	36	2 00		72 00
J. P. Wood,	do	219	1 75		383 25
do	do	82	2 00	14 70	164 00
extra,....	do	27	2 00		54 00
Jas. McWeeney,.	Inspector, .	77	1 50		115 50
do	do	139	1 75		243 25
Frank'n Witherel	do	65	1 25		81 25
R. F. Laring, ...	do	69	2 00		138 00
					<hr/>
					\$14,034 55
Travel,					560 95
Stationery,					249 18
Fuel,.....					44 46
Lights,					40 16
Office rent,.....					133 29
Postage, telegraph,					47 08
Labor,.....					11 50
Miscellaneous					113 40
					<hr/>
Total amount, ..					\$15,233 57
Total expenditures by D. Marsh,					25,716 02
do by John Lathrop,.....					13,622 66
do by Davis Hurd,					1,635 59
Division engineer's salary and expenses,.....					2,748 19
					<hr/>
Total expenditures in engineer department western division,					<u>\$58,956 03</u>

TABULAR STATEMENT

Showing the length and estimated cost of work under contract previous to 1851, not completed, and the amount of work done and remaining to be done at contract prices on the western division of the State canal up to January 1st, 1852.

First sub-division—D. MARSH, Resident Engineer.

KIND OF WORK.	Length of section or No. of struc're.	Estimate at contract prices.	Amount done at con- tract prices.	Remaining to be done at contract prices.
Clyde, ... Section No. 212,	1.13	\$32,150 69	\$22,878 00	\$9,272 69
Lyons, ... do 219,	0.34	17,319 37	1,408 00	15,911 37
Newark, .. do 231,	0.74	24,666 75	2,956 00	21,710 75
Brighton, .. do 261, (1)	0.11	2,524 30	2,073 00	451 30
do do 261, (2)	1.35	32,462 56	27,113 00	5,349 56
Brockport, do 284, (22)	0.84	19,149 33	11,852 90	7,296 43
Albion, ... do 306, (44)	0.91	26,308 94	4,609 90	21,699 04
Bridges on section 261, (2)	2	4,735 77	1,378 00	3,357 77
do do 22,	1	2,895 46	528 00	2,367 46
Culverts, do 22,	2	3,204 88	478 00	2,726 88
Waste weir, do 212,	1	891 90	.....	891 90
Clyde lock,	1	24,816 32	23,538 00	1,278 32
Lock Berlin,	1	26,082 40	2,352 00	23,730 40
Lock No. 68, (2)	1	22,611 47	22,893 00	217 57
Valves for locks Nos. 1, 2, and 3,	3	3,251 03	3,050 00	201 03
Totals,		\$248,071 17	\$126,608 70	\$116,462 47

TABULAR STATEMENT

Showing the length and estimated cost of work on the second subdivision of the western division of the enlargement of the Erie canal put under contract previous to January, 1851, and the amount done and remaining to be done on the same, up to January 1, 1852.

JOHN LATHROP, Resident Engineer.

	No. of miles or number of structures	Est'd cost at contract pri- ces.	Amount done.	Amount to be done.
Medina section, (No. 321,) .....	.95 miles.	\$40,784 80	\$2,200 00	\$38,584 80
Aqueduct at Medina,	1 in No.	33,373 00	12,825 00	20,548 00
Section No. 5, Mountain Ridge, $\frac{1}{4}$ mile.		33,373 00	17,470 00	15,903 00
do 6, do do do	do	65,941 00	25,415 00	40,526 00
do 7, do do do	do	65,031 20	11,166 00	53,865 20
do 8, do do do	do	61,535 35	24,586 00	36,939 35
do 9, do do do	do	53,249 00	25,235 00	28,014 00
do 10, do do do	do	58,056 20	23,711 00	34,345 20
do 11, do do .45 miles.		62,314 00	28,316 00	33,998 00
do 12, do do $\frac{1}{4}$ do		61,639 00	26,943 00	34,696 00
do 13, do do do	do	82,020 00	32,575 00	49,445 00
do 14, do do .36 do		57,885 65	37,364 00	20,521 65
Ship lock at Black Rock,	1 in No.	48,853 13	37,130 00	11,723 13
Sections 1 and 2 in the city of				
Buffalo,	1.63 miles.	75,465 78	59,390 65	16,075 13
Erie Basin and slips,		215,045 73	112,850 00	102,695 73
Main and Hamburg-st. canal, .	.39 miles.	4,760 77	3,650 00	1,110 77
Swing bridge on Ohio-street, ...	1 in No.	5,937 56	4,830 00	1,107 56
	7.78 miles.	\$1,045,265 17	\$485,156 65	\$560,108 52

GENESEE VALLEY CANAL.

TABULAR STATEMENT

Showing the estimated cost of work let since the resumption in 1847, the amount of work done and remaining to be done at contract prices, January 1st, 1852.

O. W. STOREY, Resident Engineer.

CONTRACTS.	Contractors Firm.	Cost at contract prices.	Amount done.	To be done.
Sections 42, 43, 44, 45 &c,	Jno. Hayes & Co.,	\$21,900 00	\$21,069 00	\$831 00
do 47 &c.	Robert Ennis,	11,800 00	11,639 00	161 00
do 52, 53, 55 and 56,	Geo. Williams & Co.,	16,603 47	16,603 47	
do 54 deep cut,	Surranus Britton & Co.,	79,561 47	79,561 47	
Portage tunnel,	Asa D. Wood,	8,542 03	8,542 03	
Cliff line,	N. C. Edgerton & Co.,	66,500 00	63,738 00	2,762 00
Section 57,	A. M. Nelson & Co.,	623 00	623 00	
do 57 and 58,	C. F. Chamberlain & Co.,	80,000 00	62,706 00	17,294 00
do 59, 60, 61 and 62,	Jas. O'Maley,	20,387 06	20,387 06	
do 63, 64, 65 and 66,	Robert Ennis,	14,100 00	13,945 00	155 00
do 67, 68 and 69,	Sharp & Quinn,	29,271 57	29,088 00	183 57
do 70, 71, 72 and 73,	J. M. Hammond & Co.,	9,406 38	9,406 38	
Sec. 74, 75, 76, 77 and G. R. Feeder,	Henry Cady,	18,260 62	18,260 62	
Ditches in Sparta,	Wm. McArthur,	3,600 00	3,161 00	439 00
Sections 79, 80 and 81,	Wm. N. Marsh,	9,847 00	.....	9,847 00
do 82, 83 and 84,	Henry Cady,	4,917 00	.....	4,917 00
do 85, 86 and 87,	Jas. O'Maley,	11,780 00	.....	11,780 00
do 88, 89 and 90,	N. C. Edgerton & Co.,	9,019 00	.....	9,019 00
do 92, 93 and 94,	Abm. Vernam,	20,560 00	6,810 00	13,750 00

136

[Assembly

Sections 95, 96 and 97,	Geo. Quinn,	20,910 00	650 00	20,260 00
do 99, 100, 101 and 102,	Daniel Judd & Co.,	11,000 00	4,218 00	6,782 00
do 103, 104, 105 and 106,	Jas. W. Britton & Co.,	11,444 00	1,880 00	9,564 00
do 91 and 12, change of feeder,	Nelson Hewett,	9,570 00	.....	9,570 00
do 98, do	Edson Hammond,	11,700 00	.....	11,700 00
do 107,	Ridsdale, Napier & Co.,	11,770 00	.....	11,770 00
Ishua feeder,	do	18,400 00	.....	18,400 00
Deepening from mud to guard lock, .....	.....	6,190 00	6,190 00	
Total for sections, .....	.....	\$537,572 60	\$378,388 03	\$159,184 57
Locks 11, 14 and 15,	Judd and Curtis,	\$16,321 59	\$16,321 59	
do 12, 16, 29 and 32,	Marsh and Lawrence,	17,125 50	17,125 50	
do 13, 20, 21, 22, 23, 24, 25, 26 & 28	Isaac Hall & Co.,	13,993 89	13,993 89	
do 17,	Tousley and James,	5,350 00	5,303 17	46 83
do 18,	do	4,530 00	4,492 11	37 89
do 19 and 30,	do	10,330 00	10,299 91	30 09
do 27,	W. H. Thomas,	3,624 63	2,433 00	
do 27,	C. B. Lawrence, .....	.....	1,191 63	
do 29, 11, 12, 14, 15, 50, 51 & 60,	L. J. Peck,	89 00	89 00	
do 31,	Tousley and James,	5,840 41	5,840 41	
do 33, 34, 35, 36, 42, 43, 44, 45, 46,	Wm. N. Marsh,	18,200 00	17,374 00	826 00
do 37,	Tousley and James,	3,900 40	3,900 40	
do 40,	do	4,660 53	4,660 53	
do 39,	Surranus Britton & Co.,	4,606 00	4,606 00	
do 37, 39 and 40,	Eldah Corey,	477 95	477 95	
do 38,	Tousley & James,	5,000 00	4,664 96	335 04

TABULAR STATEMENT—(CONTINUED.)

CONTRACTS.	Contractor's Firm.	Cost at contract prices.	Amount done.	To be done.
Locks 41,	Britton, Spencer & Co.,	\$3,200 00	\$3,151 00	\$49 00
do 48,	D. J. McDonald,	848 00	848 00	
do 47, 48, 49, 51, 52, 54, 55, 56, 57	Andrew Blass & Co.,	24,900 00	24,127 00	773 00
do 50, 58 and 60,	Woodard & Peck,	22,241 80	22,241 80	
do 53,	Tousley & James,	5,167 09	5,167 09	
do 59, 61, 64, 66, 68, 69, 70 & 71,	A. Blass & Co.,	21,200 00	20,613 00	587 00
do 62, 63, 65 and 67,	J. B. Flint, .....	.....	.....
do 62, 63 and 65,	Chamberlain & Bradley,	13,100 00	12,986 00	214 00
do 67 and guard lock No. 3, ...	O. Thomas & Co.,	11,933 08	11,933 08	
Guard lock No. 3,	J. B. Flint,	542 00	542 00	
Valve gates for all locks,	Alfred Bell,	10,775 38	10,775 38	
Locks 72, 73, 74, 75 76, and 77, ...	John T. Wright,	27,738 00	9,230 00	18,508 00
do 78, 79 and 80,	H. Hunt & Co.,	27,000 00	8,440 00	18,560 00
do 81, 82 and 83,	Britton, Spencer & Co.,	21,800 00	700 00	21,100 00
do 84, 85, 86, 87, 88, and 89, ..	Wm. Ridsdale & Co.,	32,500 00	5,580 00	26,920 00
do 90, 91 and 92,	B. Sherman,	18,500 00	2,040 00	16,460 00
do 93, 94, 95, 96 and 97,	G. W. Peck,	36,000 00	9,570 00	26,430 00
do 98 and 99,	Geo. Minard,	13,600 00	1,470 00	12,130 00
do 100, 101 and 102,	C. T. Chamberlain,	29,063 00	1,648 00	27,415 00
do 103, 104 and Olean aqueduct,	Flemming & Larkin,	29,815 00	5,140 00	24,675 00
do 105,	H. M. Severand,	11,280 00	.....	11,280 00

[ASSEMBLY

158

do 106,	C. Keyes & Co.,	16,000 00	.....	16,000 00
Valve gates 72 to 106,	Seymour & Wood,	7,000 00	.....	7,000 00
Totals for locks,		\$498,253 25	\$268,876 40	\$229,376 85
Aqueducts.				
Cashuquo creek, No. 2,	L. J. Peck,	\$7,216 15	\$7,216 15	
Brushville,	Geo. W. Peck & Co.,	2,219 48	2,219 48	
Portage,	Abm. Wigg & Co.,	41,835 47	41,835 47	
Wiscoy, Cold and Houghton creek,	J. B. Flint,	470 00	470 00	
Wiscoy creek,	Sharp and Quinn,	7,589 45	7,589 45	
Cold Houghton creek,	Clark & Sherrill,	8,920 39	8,920 39	
Caneada creek,	Jas. Wells,	5,000 00	4,875 00	\$125 00
Superstructure of Portage aqueduct,	M. S. Ross,	2,929 00	2,929 00	
do	Wm. Ridsdale & Co.,	6,129 00	6,129 00	
Ischua aqueduct,	Nelson Hewitt,	3,860 00	.....	3,860 00
Total for aqueducts,		\$86,168 94	\$82,183 94	\$3,985 00
Culverts on section No. 46,				
do	S. J. Peck,	\$577 00	\$577 00	
do	Alfred Lee,	467 77	467 77	
do	Vernam and Mills,	368 89	368 89	
do	W. N. Marsh,	3,198 13	3,198 13	
do	D. S. McDonald,	417 00	417 00	
do	do	711 00	711 00	
do .....	.....	1,910 36	880 00	1,021 36
Total for culverts,		\$7,650 15	\$6,628 79	\$1,021 36

TABULAR STATEMENT--(Continued.)

CONTRACTS.	Contractor's Firm.	Cost at contract prices.	Amount done.	To be done.
Waste weirs.				
On sections Nos. 46 and 49,	L. J. Peck,	\$1,140 00	\$1,026 00	\$114 00
do 50, 53, 55 and 56, ..	Cyrus Rose,	2,301 55	2,301 55	
do 57 and 60, ..:.....	Peter Dunn,	667 96	667 96	
do 71,	Austin Partridge,	580 00	580 00	
Total for waste weirs,		\$4,689 51	\$4,575 51	\$114 00
Bridges on Secs. 41 to 52 inclusive.	Sawyer Peck,	\$12,600 00	\$11,812 00	\$788 00
do on Secs. 53 to 69 inclusive.	Keyes & Nevins,	20,900 00	20,073 00	827 00
do do 70 to 77 inclusive.	A. L. Burr & Co.,	7,840 00	7,652 00	188 00
do at wings of lock 46,	G. Lighthall,	330 00	160 00	170 00
do on Sec. from 78 to 84,	"	3,351 00	.....	3,381 00
do do 85 to 89,	L. J. Peck,	3,248 00	.....	3,248 00
do do 92 to 98 inc.	A. L. Burr,	6,003 00	.....	6,003 00
do do 99 to 103 inc.	N. Coe & Co.,	5,071 00	.....	5,071 00
do do 107.....	N. Hewitt,	1,540 00	.....	1,540 00
do at Troup-street, .....	.....	1,220 00	1,220 00	
Total for bridges,		\$62,103 00	\$40,917 00	\$21,186 00

140

ASSEMBLY

Dam bulkhead at Mt. Morris,	Abm. Wigg,	4,012 73	4,012 73		
do at Wiscoy Creek, ..	M. L. Ross,	6,800 05	6,800 05		
Reservoirs, at Rockville, improve'nt.	Wm. Ridsdale & Co.,	3,000 00	.....	3,000 00	
do Oil Creek,	Abm. Vernam,	55,500 00	.....	55,500 00	
Total for dams and reservoirs, ..	.....	\$69,312 78	\$10,812 73	\$58,500 00	

ENLARGEMENT ERIE CANAL.

Summary of the preceding statements.

WORK.	Miles in length or number of structures.	Cost at con- tract prices.	Am't done.	Amount to be done.
Sections,	13.10	\$896,637 69	\$390,912 45	\$505,725 24
Erie basin and slips,	1	215,045 73	112,350 00	102,695 73
Locks, valves, &c.,	4	122,363 32	85,413 90	36,949 42
Aqueducts,	1	33,373 00	12,825 00	20,548 00
Aqueducts,	2	3,204 88	478 00	2,726 88
Waste weirs,	1	891 90	.....	891 90
Bridges,	4	13,558 79	6,736 00	6,832 79
		\$1,288,336 34	\$611,765 35	\$676,570 99

GENESEE VALLEY CANAL.

WORK.	Miles in length or number of structures.	Cost at contract prices.	Am't done.	Amount to be done.
Sections,	66	\$537,572 60	\$378,388 03	\$159,184 57
Locks, including one aqueduct, ..	98	498,253 25	268,876 40	229,376 85
Aqueducts,	8	86,168 94	82,183 94	3,985 00
Culverts,	6	7,650 15	6,628 79	1,021 36
Waste weirs,	7	4,689 51	4,575 51	114 00
Bridges,	98	62,103 00	40,917 00	21,186 00
Dams, bulkheads, and reservoirs, ..	6	69,312 78	10,812 78	58,500 00
Total for Genesee Valley Canal,		\$1,265,750 23	\$792,382 45	\$473,367 78
E. B. Canal brought down,		1,268,336 34	611,765 35	676,570 99
		\$2,564,006 57	\$1,404,147 80	\$1,149,938 77

TABULAR STATEMENT

Of work let Dec. 29th, 1851, showing the length of sections, number of structures, estimated cost and cost at contract prices.

First sub-division—D. MARSH's residency.

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structure.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
Wm. A. Sackett & Co.,.....	207	1.68 miles,.....	\$114,924 00	\$124,313 12	\$99,601 00	\$107,763 65
H. E. Storrs & Co.,	do	Culverts,	6,503 00		5,095 75	
R. Ennis & Co.,	do	1 bridge abutment,	1,609 00		1,621 90	
E. Corning & Co.,.....	do	1 do superstr's, ..	1,277 12		1,445 00	
A. B. Bradshaw,.....	208	1.15 miles,.....	\$28,600 00	35,183 12	\$25,191 00	31,366 05
J. N. Stage,	do	1 waste-wier,.....	1,412 00		1,160 15	
Robert Ennis & Co.,.....	do	1 culvert,.....	2,289 00		1,852 70	
Robert Ennis & Co.,.....	do	1 bridge abutment,	1,605 00		1,717 20	
E. Corning & Co.,.....	do	1 superstructure, ..	1,277 12		1,445 00	
C. T. Chamberlain & Co.,..	209	1.17 miles,.....	\$28,220 00	33,603 12	\$25,677 00	30,479 80
J. N. Stage,	do	1 culvert,.....	2,487 00		1,688 00	
Ennis Dodge & Co.,	do	1 bridge abutment,	1,619 00		1,669 80	
E. Corning & Co.,	do	1 superstructure, ..	1,277 12		1,445 00	
Ethan Clarke,.....	210	1.13 miles,.....	\$456 00	43,330 00	\$27,109 00	38,160 81
E. T. Chamberlain,.....	do	2 culverts,.....	8,539 00		7,042 25	
B. Birchard & Co.,.....	do	2 bridge abutm'ts, ..	2,720 00		2,394 56	
E. Corning & Co.,.....	do	2 superstructures, ..	1,615 00		1,615 00	

Henry Cady & Co.,.....	211	1.07 miles,.....	\$29,764 00		\$23,583 00		
C. T. Chamberlain & Co.,...	do	1 culvert,.....	2,681 00		2,373 00	32,445 00	25,956 00
Jno. Layton & Co.,.....	212	0.35 mile,.....	\$17,817 00		\$17,864 26		
Ennis, Dodge & Co.,	do	2 bridge abutm'ts, ..	3,348 00		3,361 00		
E. Corning & Co.,.....	do	2 superstructures, ..	4,675 26		4,675 26	25,840 26	25,900 52
Jno. Layton & Co.,.....	213	0.87 mile,.....	\$23,039 00		\$21,408 00		
Chamberlain & Bradley, ...	do	2 bridge abutm'ts, ..	2,674 00		2,081 60		
E. Corning & Co.,.....	do	2 superstructures, ..	1,615 00		1,615 00	27,328 00	25,104 60
Charles Nichols & Co.,.....	214	0.78 miles,.....	\$29,000 00		\$21,670 00		
C. T. Chamberlain & Co.,...	do	1 culvert,.....	2,428 00		2,001 69		
Ennis, Dodge & Co.,.....	do	1 bridge abutment, ..	1,316 00		1,872 34		
E. Corning & Co.,.....	do	1 superstructure, ..	807 50		807 50	33,564 50	25,851 53
Charles Nichols & Co.,.....	215	0.77 miles,.....	\$25,575 00		\$19,558 00		
A. B. Williams & Co.,.....	do	1 culvert,.....	6,294 00		4,820 50		
Ethan Clarke,.....	do	1 waste-wier,.....	1,342 00		1,197 05		
Ennis, Dodge & Co.,	do	1 bridge abutment, ..	1,377 00		1,389 70		
E. Corning & Co.,.....	do	1 superstructure, ..	807 50		807 50	35,395 50	27,772 75
Charles Nichols & Co.,.....	216	1.18 miles,.....	\$42,122 00		\$32,356 00		
H. E. Storrs & Co.,.....	do	2 culverts,.....	8,895 00		7,141 00		
Chamberlain & Bradley, ...	do	3 bridge abutm'ts, ..	4,813 00		3,695 70		
E. Corning & Co.,.....	do	8 superstructures, ..	3,831 36		4,335 00	59,661 36	47,597 70

STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structure.	Estimated cost.	Total.	Cost at contract prices.	Total.
E. B. Price & Co.,	217	1.08 mile,	\$46,984 00	\$52,258 50	\$38,033 00	\$43,247 10
Ennis, Dodge & Co.,	do	2 bridge abutm'ts, ..	3,022 00		2,961 60	
E. Corning & Co.,	do	2 superstructures, ..	2,252 52		2,252 52	
A. B. Williams & Co.,	218	1.27 mile,	\$62,469 00	79,737 00	\$56,146 00	72,315 86
Jacob Leach & Co.,	do	2 culverts,	6,901 00		5,845 46	
Ennis, Dodge & Co.,	do	4 bridge abutm'ts, ..	5,862 00		5,819 40	
E. Corning & Co.,	do	4 superstructures, ..	4,505 00	14,944 86	4,505 00	12,382 28
James W. Clarke,	219	1 waste weir,	\$1,431 00		\$1,195 20	
A. L. Dodge & Co.,	do	3 bridge abutm'ts, ..	5,317 00		3,991 22	
E. Corning & Co.,	do	3 do super.,	8,196 86	48,625 50	8,196 86	43,065 20
G. W. Barnard,	228	1.03 mile,	\$34,582 00		\$30,159 00	
Robert Ennis,	do	2 culverts,	5,761 00		4,698 30	
Ennis, Dodge & Co.,	do	3 bridge abutm'ts, ..	4,585 00	36,519 50	4,510 40	29,569 60
E. Corning & Co.,	do	3 do super.,	3,697 50		3,697 50	
Robert S. Nellis,	229	1.05 mile,	\$31,369 00		\$24,966 00	
Samuel Moore,	do	1 culvert,	2,712 00		2,165 00	
Ennis, Dodge & Co.,	do	1 bridge abutm't, ..	1,631 00		1,631 10	
E. Corning & Co.,	do	1 do super.,	807 50		807 50	

Ennis, Dodge & Co.,.....	231	2 bridge abutm'ts, ..	\$3,597 00	\$3,478 60		
E. Corning & Co.,.....	do	2 do . super.,...	4,920 84	4,920 84	8,517 84	8,399 44
A. O. Lamoreau,.....	232	1.04 mile,.....	\$26,997 00	\$23,777 50		
A. E. Storrs & Co.,.....	do	1 culvert,.....	5,082 00	4,277 00		
James W. Clarke,.....	do	1 waste weir,.....	1,363 00	1,120 48		
Levi Chase,.....	do	1 bridge abutm't, ..	1,631 00	1,312 80		
E. Corning & Co.,.....	do	1 do super.,...	1,277 12	1,445 00		
					36,850 12	31,932 78
John Vernam & Co.,.....	233	1.05 mile,.....	\$26,279 00	\$24,496 00		
Levi Chase,.....	do	1 bridge abutm't, ..	1,629 00	1,311 50		
E. Corning & Co.,.....	do	1 superstructure, ..	1,277 12	1,445 00		
					29,185 12	27,252 50
John Vernam & Co.,.....	234	0.95 mile,.....	\$41,017 00	\$39,820 20		
Daniel Kenyon,.....	do	1 culvert,.....	3,943 00	3,181 10		
Levi Chase,.....	do	2 bridge abutm'ts, ..	3,103 00	2,522 38		
E. Corning & Co.,.....	do	2 do super.,...	3,512 20	3,512 20		
					51,575 20	49,035 88
J.W. Goodrich,.....	235	0.90 mile,.....	\$23,487 00	\$17,963 00		
Levi Chase,.....	do	2 bridge abutm'ts, ..	3,320 00	2,663 30		
E. Corning & Co.,.....	do	2 superstructures, ..	2,554 24	2,890 00		
					29,361 24	23,516 30
E. Ennis,.....	236	1 mile,.....	\$26,453 00	\$22,890 00		
					26,453 00	22,890 00
W. S. Church,.....	237	1 mile,.....	\$27,133 00	\$25,133 00		
Levi Chase,.....	do	1 bridge abutm't, ..	1,700 00	1,357 78		
E. Corning & Co.,.....	do	1 do super.,...	1,277 12	1,445 00		
					30,110 12	27,935 78

STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structure.	Estimated cost.	Total.	Cost at contract prices.	Total.
Robert Ennis,.....	238	1 mile,.....	\$35,500 00		\$31,394 00	
Daniel Kenyon,.....	do	1 culvert,.....	4,198 00		3,316 10	
Levi Chase,.....	do	1 bridge abutment,	1,303 00		1,063 60	
E. Corning & Co.,.....	do	1 superstructure,...	807 50		807 50	
				\$41,808 50		\$36,581 20
T. J. Richmond & Co.,.....	239	1.02 mile,.....	\$41,004 00		\$35,756 00	
John Vernam & Co.,.....	do	1 culvert,.....	5,953 00		5,662 50	
Levi Chase,.....	do	2 bridge abutm'ts,...	2,798 00		2,251 61	
E. Corning & Co.,.....	do	2 do super.,...	1,615 00		1,615 00	
				51,370 00		45,285 11
E. Ennis & Co.,.....	241	1.02 mile,.....	\$30,994 00		\$27,264 00	
Petar Boyce,.....	do	1 aqueduct,.....	33,935 00		26,146 37	
S. J. Hunt,.....	do	2 bridge abutm'ts,...	3,020 00		2,365 00	
E. Corning & Co.,.....	do	2 do super.,...	3,512 20		3,512 20	
				71,461 20		59,287 57
E. Ennis & Co.,.....	242	0.88 mile,.....	\$19,787 00		\$16,822 00	
S. J. Hunt,.....	do	2 bridge abutm'ts,...	3,093 00		2,415 12	
E. Corning & Co.,.....	do	2 do super.,...	2,252 50		2,252 50	
				25,132 50		21,489 62
E. Ennis & Co.,.....	243	0.87 mile,.....	\$16,768 00		\$15,042 00	
S. J. Hunt,.....	do	1 bridge abutment,	1,631 00		1,277 70	
E. Corning & Co.,.....	do	1 do super.,...	1,277 12		1,445 00	
				19,676 12		17,764 70

ASSEMBLY

E. Ennis & Co.,.....	245	0.32 mile,.....	\$9,110 00		\$8,401 00		
S. J. Hunt,.....	do	1 bridge abutment,	1,914 00		1,494 18		
E. Corning & Co.,.....	do	1 do super.,...	1,277 12		1,445 00		
					12,301 12		11,340 18
Clarke & Learned,.....	246	1.10 mile,.....	\$32,040 00		\$26,399 52		
J. H. Sherrill & Co.,.....	do	1 culvert,.....	1,732 00		1,387 93		
B. Burchard & Co.,.....	do	1 bridge abutment,	1,248 00		1,209 29		
E. Corning & Co.,.....	do	1 do super.,...	1,277 12		1,445 00		
					36,297 12		30,441 74
Clarke & Learned,.....	247	1.10 mile,.....	\$37,847 00		\$31,397 52		
B. Burchard & Co.,.....	do	1 bridge abutment,	1,248 00		1,209 29		
E. Corning & Co.,.....	do	1 do super.,...	1,277 12		1,445 00		
					40,372 12		34,051 81
A. P. McDonald,.....	248	0.84 mile,.....	\$33,499 00		\$25,303 60		
					33,499 00		25,303 60
W. S. Church,.....	249	0.84 mile,.....	\$41,302 00		\$35,152 40		
B. Burchard & Co.,.....	do	1 bridge abutment,	1,248 00		1,209 29		
E. Corning & Co.,.....	do	1 do super.,...	1,277 12		1,445 00		
					43,827 12		37,806 69
S. Clarke & Co.,.....	250	1 mile,.....	\$54,913 00		\$49,099 65		
					54,913 00		49,099 65
D. H. Richardson,.....	251	1 mile,.....	\$54,342 00		\$53,291 20		
					54,342 00		53,291 20
D. H. Richardson,.....	252	1.04 mile,.....	\$45,740 00		\$44,011 80		
B. Burchard & Co.,.....	do	2 bridge abutm'ts,.	2,309 00		2,251 94		
E. Corning & Co.,.....	do	2 do super.,...	2,252 50		2,252 50		
					50,301 50		48,516 24

STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structure.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
W. S. Church,.....	253	1 mile,.....	\$24,827 00		\$23,712 80	
B. Burchard & Co.,.....	do	2 bridge abutm'ts,	2,496 00		2,418 58	
E. Corning & Co.,	do	2 superstructures,	3,512 20		3,512 20	
B. Pringle,	do	1 culvert,.....	1,732 00		2,223 81	
				\$32,567 20		80,867 89
D. H. Richardson,	254	1.04 miles,.....	\$33,839 00		\$29,771 80	
Lewis Selye,	do	1 waste-wier,.....	700 00		628 26	
B. Burchard & Co.,.....	do	1 bridge abutm't,	1,248 00		1,163 79	
E. Corning & Co.,.....	do	1 do superstre,	807 50		807 50	
				36,594 50		82,371 35
George Law,	255	1.24 miles,.....	\$393,491 00		\$347,571 00	
J. H. Sherill & Co.,	do	1 culvert,.....	34,675 00		23,746 80	
Lewis Selye,	do	1 do	6,674 00		6,296 50	
				434,840 00		877,614 80
H. N. Norman & Co.,.....	256	0.90 mile,.....	\$99,635 00		\$81,007 40	
B. Burchard & Co.,.....	do	2 bridge abutm'ts,	2,309 00		2,167 94	
E. Corning & Co.,.....	do	2 do superst's,	2,252 50		2,252 50	
				104,196 50		85,427 84
H. V. Colt,.....	257	1.01 miles,....	\$70,468 00		\$60,752 50	
B. Burchard & Co.,.....	do	3 bridge abutm'ts,	3,370 00		3,172 09	
E. Corning & Co.,.....	do	3 do superst's,	3,060 00		3,060 00	
				76,898 00		86,984 59

150

[ASSEMBLY

G. W. Baldwin,.....	258	0.80 mile,.....	\$32,113 00	\$31,793 00		
B. Burchard & Co.,.....	do	2 bridge abutm'ts,...	2,809 00	2,167 94		
E. Corning & Co.,.....	do	2 do superstr's,	2,252 50	2,252 50		
					36,674 50	36,218 44
N. E. Paine,.....	259	1.08 miles,.....	\$231,462 00	\$229,171 00		
J. H. Sherrill & Co.,.....	do	1 culvert,.....	15,068 00	8,838 00		
Kingsley & James,.....	do	Lock 64,.....	23,270 00	23,313 85		
Seymour & Wood,.....	do	Valves,	559 00	842 68		
James R. Thomson,.....	do	1 waste weir,.....	700 00	641 33		
					271,059 00	261,306 86
L. A. G. B. Grant,.....	260	1.33 miles,.....	\$62,166 00	\$45,894 00		
George Williams & Co.,...	do	Lock 66,.....	28,470 00	27,384 47		
G. J. Whitney & Co.,.....	do	Lock 65,.....	22,952 00	20,638 75		
Peter Boyce,.....	do	1 aqueduct,	13,529 00	11,554 98		
Seymour & Wood,.....	do	Valves,	1,118 00	1,685 36		
Elias Knapp,.....	do	2 culverts,.....	1,962 00	1,509 51		
B. Burchard & Co.,.....	do	3 bridge abutm'ts,...	3,557 00	3,271 73		
E. Corning & Co.,.....	do	3 do superstr's,	4,941 90	4,941 90		
					138,695 90	116,880 70
Q. Charlick,.....	262	1.60 miles,.....	\$57,112 00	\$57,676 26		
Lewis Selye,.....	do	Guard lock,.....	11,858 00	11,197 59		
Seymour & Wood,.....	do	Valves,	559 00	842 68		
John L. Clarke & Co.,.....	do	1 culvert,.....	1,870 00	1,220 36		
B. Burchard & Co.,.....	do	2 bridge abutm'ts,...	4,049 00	3,617 24		
E. Corning & Co.,.....	do	2 do superstr's,	5,862 20	5,862 20		
					80,810 20	80,416 33

STATEMENT--(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section.	Length of section or No. of structure.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
G. J. Whitney & Co.,.....	266	1 mile,.....	\$37,854 00		\$34,647 18	
James R. Thomson,.....	do	2 culverts,.....	5,857 00		4,835 85	
James R. Thomson,.....	do	1 waste weir,.....	1,110 00		1,059 80	
B. Burchard & Co.,.....	do	1 bridge abutment,	1,597 00		2,269 50	
E. Corning & Co.,.....	do	1 do superstr'e,	1,277 12	\$47,195 12	1,445 00	\$44,257 33
William Candee & Co.,.....	267	1 mile,.....	\$33,084 00		\$31,779 00	
James R. Thomson,.....	do	1 culvert,.....	1,414 00		1,266 64	
J. Hall,.....	do	1 bridge abutment,	1,280 00		1,042 90	
E. Corning & Co.,.....	do	1 superstructure, ..	897 50	36,585 50	807 50	31,896 04
J. Jenkinson & Co.,.....	268	1.02 miles,.....	\$21,532 00		\$20,534 00	
Isaac Hall,.....	do	1 bridge abutment,	1,597 00		1,242 25	
E. Corning & Co.,.....	do	1 do superstr'e,	1,277 12		1,445 00	
A. Barnard,.....	269	1 mile,.....	\$25,572 00	24,406 12	\$25,141 00	23,221 25
W. N. Marsh,.....	270	1 mile,.....	\$25,476 00	25,572 00	\$22,687 20	25,141 00
James R. Thomson,.....	do	1 culvert,.....	4,918 00		4,228 12	
Isaac Hall,.....	do	3 bridge abutm'ts, ..	4,474 00		3,527 40	
L. J. Peck,.....	do	2 do do	2,877 00		2,230 20	
E. Corning & Co.,.....	do	5 do superstr's, ..	6,020 00	43,675 00	6,020 00	38,692 92

A. Barnard,.....	271	0.98 mile,.....	\$24,416 00	\$24,104 50	30	775 65
O. Butler, jr. & Co.,.....	do	1 culvert,.....	5,828 00	4,844 55		
L. J. Peck,	do	1 bridge abutm't,	1,280 00	1,009 60		
E. Corning & Co.,.....	do	1 do superstr'e,	817 00	817 00		
					32,341 00	
Daniel Sharp,	272	0.99 mile,.....	\$29,847 00	\$29,446 00		
L. J. Peck,	do	2 bridge abutm'ts,	3,194 00	2,441 20		
E. Corning & Co.,.....	do	3 do superstr's,	2,924 00	2,924 00		
					35,965 00	34,811 20
H. P. Mills & Co.,	273	1 mile,.....	\$25,914 00	\$23,923 20		
L. J. Peck,.....	do	1 bridge abutm'ts,	1,597 00	1,220 60		
E. Corning & Co.,.....	do	1 do superstr'e,	1,479 00	1,479 00		
					28,990 00	26,620 80
John L. Clark & Co.,.....	274	1 mile,.....	\$22,857 00	\$21,270 20		
O. Butler, jr. & Co.,.....	do	1 culvert,.....	1,362 00	1,259 84		
L. J. Peck,	do	1 bridge abutment,	1,597 00	1,220 60		
E. Corning & Co.,.....	do	1 do superstr'e,	1,479 00	1,479 00		
					27,295 00	25,229 64
C. B. Thomson & Co.,	275	1 mile,.....	\$24,882 00	\$24,214 80		
James R. Thomson,	do	1 culvert,	4,120 00	3,677 65		
James R. Thomson,	do	1 waste wier,.....	1,110 00	1,030 05		
L. J. Peck,.....	do	1 bridge abutment,	1,280 00	1,009 60		
E. Corning & Co.,.....	do	1 do superstr'e,	826 50	826 50		
					32,218 50	30,758 10

STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section.	Length of section or No. of structures.	Cost at contract prices.	Totals.
James Cochrane,.....	276	1 mile,.....	\$23,898 40	29,859 76
O. Butler, Jr. & Co.,.....	do	1 culvert,.....	2,290 22	
L. J. Peck,.....	do	1 bridge abutment,	1,530 98	
E. Corning & Co.,.....	do	1 do super.,...	2,140 16	
Jason Baker,.....	277	1 mile,.....	\$22,313 40	31,338 60
James R. Thomson,.....	do	1 culvert,.....	3,587 00	
L. J. Peck,.....	do	2 bridge abutments,	2,441 20	
E. Corning & Co.,.....	do	2 do super.,...	2,992 00	
W. O. Bloss & Co.,.....	278	1 mile,.....	\$24,312 30	29,719 18
A. Wilder,.....	do	1 culvert,.....	2,626 18	
do	do	1 bridge abutment,	1,284 80	
E. Corning & Co.,.....	do	1 do super.,...	1,496 00	
			30,751 00	
S. Sawin & Co.,.....	279	1 mile,.....	\$22,666 20	38,590 74
H. E. Storrs & Co.,.....	do	2 culverts,...	6,462 41	
Antlas & Stanbury,.....	do	1 waste-weir,.....	1,012 85	
.....	do	1 bridge abutment,	1,284 80	
.....	do	1 do super.,...	2,164 48	
			35,241 48	

O. Clark,.....	280	1 mile,.....	\$38,421 00		\$37,746 20		
Gideon Hard,.....	do	1 culvert,.....	1,511 00		1,481 20		
A. Wilder,.....	do	1 bridge abutment,	1,597 00		1,284 80		
E. Corning & Co.,.....	do	1 do super.,...	1,513 00		1,513 00		42,025 29
E. T. Bridges & Co.,.....	281	1 mile,.....	\$35,367 00		\$30,615 40		
E. S. Reed & Co.,.....	do	1 culvert,.....	2,860 00		2,695 08		
A. Wilder,.....	do	2 bridge abutm'ts,	3,194 00		2,569 60		
E. Corning & Co.,.....	do	2 do super.,...	3,026 00		3,026 00		38,906 08
J. B. Mass,.....	282	1.04 mile,.....	\$34,985 00		\$29,896 80		
William Lewis & Co.,.....	do	1 culvert,.....	3,616 00		2,865 57		
W. Walker,.....	do	1 bridge abutm't,	1,280 00		1,197 50		
E. Corning & Co.,.....	do	1 do super.,...	855 00		855 00		34,814 87
William Candee & Co.,.....	283	0.50 mile,.....	\$16,992 00		\$14,491 00		14,491 00
A. P. McDonald,.....	285	0.50 mile,.....	\$22,872 00		\$21,737 40		21,737 40
James Breed & Co.,.....	286	1.08 mile,.....	\$29,263 00		\$27,141 40		
W. Walker,.....	do	1 bridge abutm't,	1,597 00		1,432 15		
E. Corning & Co.,.....	do	1 do super.,...	1,547 00		1,547 00		30,120 55
James Breed & Co.,.....	287	1.08 mile,.....	\$35,955 00		\$32,417 40		
E. S. Reed & Co.,.....	do	1 culvert,.....	6,356 00		4,960 44		
Gideon Hard,.....	do	2 bridge abutm'ts,	3,194 00		2,754 50		
E. Corning & Co.,.....	do	2 do super.,...	3,128 00		3,128 00		43,260 34

STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of section.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
J. W. Britton & Co.,.....	288	0.45 mile,	\$8,938 00		\$8,899 91	
B. Pringle,	do	1 culvert,	1,403 00		1,291 10	
				\$10,341 00		\$10,190 91
John H. Nichols,.....	A.B.	0.79 mile,.....	\$26,242 00		\$22,419 90	
H. Brintnall & Co.,.....	do	1 bridge abutment,	1,597 00		1,536 30	
E. Corning & Co.,.....	do	1 do superstr'e,	1,564 00		1,564 00	
				29,403 00		25,520 20
C. J. and H. De Graw,	290	0.40 mile,	\$16,872 00		\$11,665 00	
John Ryan & Co.,	do	1 culvert,	6,314 00		5,776 00	
H. Brintnall & Co.,.....	do	1 bridge abutment,	1,597 00		1,536 30	
E. Corning & Co.,.....	do	1 do snperstr'e,	1,564 00		1,564 00	
				26,847 00		20,541 30
M. A. Harrington,.....	291	0.62 mile,	\$15,871 14		\$15,936 75	
B. Pringle,	do	1 culvert,.....	1,316 00		1,203 10	
Butler & Stanbrough,.....	do	1 waste weir,	1,110 00		994 70	
J. B. King & Co.,.....	do	1 bridge abutment,	1,597 00		1,627 75	
E. Corning & Co.,.....	do	1 do superstr'e,	1,564 00		1,564 00	
				21,458 14		21,326 30
B. Pringle,	292	0.62 mile,	\$18,226 00		\$16,969 30	
B. Pringle,	do	1 culvert,.....	2,910 00		2,624 00	
M. A. Harrington,.....	do	1 bridge abutment,	1,597 00		1,382 85	
E. Corning & Co.,.....	do	1 do superstr'e,	1,564 00		1,564 00	
				24,297 00		22 540 15

No. 90.

157

John B. King & Co.,.....	293	0.62 mile,	\$15,899 00		\$15,832 40		
B. Pringle,	do	1 culvert,.....	1,474 00		1,353 30		
M. A. Harrington & Co.,...	do	1 bridge abutment,	1,280 00		1,142 00		
E. Corning & Co.,.....	do	1 do superstr'e,	883 50		883 50		19,211 20
H. P. Mills & Co.,	294	0.62 mile,	\$18,319 00		\$17,172 70		
M. A. Harrington & Co.,...	do	2 bridge abutment,	3,194 00		2,765 70		
E. Corning & Co.,.....	do	2 do superstr'e,	3,162 00		3,162 00		23,100 40
H. P. Mills & Co.,	295	0.62 mile,.....	\$15,881 00		\$14,884 70		14,884 70
H. P. Mills & Co.,	296	0.62 mile,.....	\$14,438 00		\$14,221 70		
Asa D. Wood & Co.,	do	1 culvert,.....	4,395 00		4,843 30		
M. A. Harrington & Co.,...	do	1 bridge abutment,	1,597 00		1,382 50		
E. Corning & Co.,.....	do	1 do superstr'e,	2,286 08		2,286 08		22,733 58
H. W. Soper & Co.,	297	0.62 mile,.....	\$13,656 00		\$14,660 50		
H. W. Soper & Co.,	do	1 bridge abutment,	1,280 00		1,239 30		
E. Corning & Co.,.....	do	1 do superstr'e,	893 00		893 00		16,792 80
H. W. Soper & Co.,	298	0.62 mile,	\$16,648 00		\$16,753 50		
John Ryan & Co.,.....	do	1 culvert,	3,274 00		3,432 50		
H. W. Soper & Co.,	do	1 bridge abutment,	1,280 00		1,239 30		
E. Corning & Co.,.....	do	1 do superstr'e,	893 00		893 00		22,318 30
J. N. Stage,.....	299	0.62 mile,.....	18,866 00		\$14,098 25		14,098 25

STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structure.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
H. U. Soper & Co.,.....	300	0.62 mile,	\$14,101 00		\$14,468 50	
Butler & Stanbrough,.....	do	1 culvert,.....	2,743 00		2,435 99	
do	do	1 waste weir,.....	1,110 00		994 70	
H. U. Soper & Co.,.....	do	2 bridge abutm'ts, ..	3,194 00		2,968 90	
E. Corning & Co.,.....	do	2 do superstr'e,	3,925 40	25,073 40	3,925 40	\$24,793 40
H. U. Soper & Co.,.....	301	0.62 mile,.....	\$13,537 00	13,537 00	\$14,336 80	14,336 80
S. Clark & Co.,.....	302	0.62 mile,.....	\$16,849 00		\$17,022 20	
H. U. Soper & Co.,.....	do	1 culvert,.....	1,308 00		759 42	
J. Ellicott & Co.,	do	1 bridge abutment,	1,597 00		1,569 50	
E. Corning & Co.,.....	do	1 do superstr'e,	1,632 00		1,632 00	
S. Clark & Co.,	303	0.62 mile,	\$15,554 00	21,886 00	\$16,285 20	20,983 12
J. Ellicott & Co.,	do	1 bridge abutment,	1,597 00		1,569 50	
E. Corning & Co.,.....	do	1 do superstr'e,	1,649 00		1,649 00	
A. Collins,.....	304	0.62 mile,	\$14,892 00	18,800 00	\$14,495 80	19,503 70
H. U. Soper & Co.,.....	do	1 culvert,.....	654 00		777 92	
J. Ellicott & Co.,	do	1 bridge abutment,	1,597 00		1,569 50	
E. Corning & Co.,.....	do	1 do superstr'e,	1,666 00	18,809 00	1,666 00	18,509 22

158

ASSEMBLY

O. Clarks,	305	0.70 mile,	\$18,629 00	\$18,097 50		
J. N. Stage,	do	1 culvert,	654 00	736 62		
J. Ellicott & Co.,	do	1 bridge abutment,	1,597 00	1,569 50		
E. Corning & Co.,	do	1 do superstr'e,	1,666 00	1,666 00	22,546 00	22,069 62
B. Pringle,	307	0.62 mile,	\$13,579 00	\$11,987 80		
C. A. Danolds,	do	1 culvert,	654 00	729 68	14,233 00	12,719 48
B. Pringle,	308	0.62 mile,	\$16,689 00	\$16,040 80		
C. A. Danolds,	do	1 culvert,	654 00	729 68		
John Ryan & Co.,	do	1 bridge abutment,	1,280 00	1,243 10		
E. Corning & Co.,	do	1 do superstr'e,	940 50	940 50	19,563 50	18,954 08
B. Pringle,	309	0.62 mile,	\$15,167 00	\$14,358 80		
C. A. Danolds,	do	1 culvert,	654 00	729 68		
J. Ryan & Co.,	do	1 bridge abutment,	1,597 00	1,507 15		
E. Corning & Co.,	do	1 do superstr'e,	2,407 68	2,407 68	19,825 68	19,003 31
B. Pringle,	310	0.49 mile,	\$11,310 00	\$10,677 60	11,310 00	10,677 60
W. P. Collins,	311	0.80 mile,	\$23,469 00	\$22,070 60		
O. Butler, Jr. & Co.,	do	2 culverts,	4,959 00	5,433 52		
J. Ryan & Co.,	do	1 bridge abutment,	1,597 00	1,507 15		
J. M. K. Hilton,	do	1 waste weir,	1,110 00	1,021 70		
E. Corning & Co.,	do	1 bridge superstr'e,	2,432 00	2,432 00	33,567 00	32,464 97

STATEMENT--(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section	Length of section or No. of structure.	Estimated cost.	Totals.	Cost at contract prices.	Totals.
David Hunter & Co.,	312	0.62 mile,	\$13,634 00		\$12,540 00	
S. Kneeland & Co.,	do	1 culvert,	654 00		733 68	
J. Ryan & Co.,	do	1 bridge abutment,	1,280 00		1,243 10	
E. Corning & Co.,	do	1 do superstr'e,	950 00	\$16,518 00	950 00	\$15,466 78
B. Pringle,	313	0.62 mile,	\$15,915 00		\$13,918 80	
S. Kneeland,	do	1 culvert,	654 00		733 68	
J. Ryan & Co.,	do	2 bridge abutm'ts,	2,877 00		2,750 25	
E. Corning & Co.,	do	2 do superstr's,	2,676 50	22,122 50	2,676 50	20,079 23
C. A. Danolds,	314	0.62 mile,	\$18,990 00		\$18,288 60	
S. Kneeland,	do	1 culvert,	900 00		969 22	
C. A. Donalds,	do	1 bridge abutment,	2,572 00		2,131 20	
E. Corning & Co.,	do	1 do superstr'e,	1,751 00		1,751 00	
				24,213 00		23,140 02
M. E. Hitchcock,	315	0.42 mile,	\$9,609 00	9,609 00	\$7,985 10	7,985 10
				\$3,894,482 76		\$3,514,979 85

160

[ASSEMBLY

TABULAR STATEMENT

Of work let December 29th, 1851, on the second sub-division of the Western division of the Enlargement of the Erie canal, showing the length of Sections, number of Structures, estimated cost and cost at contract prices.

Second sub-division—JOHN LATHROP, Resident Engineer.

NAMES OF CONTRACTORS.	No. of section.	Length of section or No. of structure.	Engineer's estimate.	Totals.	Estimated cost at contract prices.	Totals.
Isaac N. Stage,	316	1 mile,	\$28,110 00		\$24,770 00	
Hawley & Barton,	do	1 bridge abutment,	2,180 00		1,885 00	
Otis Turner,	do	2 culverts,	5,620 00		4,356 50	
E. Corning & Co.,	do	1 bridge superstr'e,	1,500 00		1,512 00	
				\$37,410 00		32,523 50
Isaac N. Stage,	317	0.88 mile,	\$26,530 00		\$24,215 00	
do	do	1 culvert,	1,436 00		1,059 00	
				27,966 00		25,274 00
Barton & O'Maley,	318	1.12 miles,	\$40,940 00		\$37,420 00	
do	do	3 culverts,	17,588 00		15,199 00	
				58,528 00		52,619 00
Samuel C. Holden,	319	1 mile,	\$37,340 00		\$34,760 00	
Hawley & Barton,	do	2 bridge abutm'ts,	3,860 00		3,280 00	
S. Parmelee & Co.,	do	2 culverts,	5,382 00		4,267 50	
E. Corning & Co.,	do	2 bridge superstr's,	2,000 00		1,680 00	
				48,582 00		43,987 50
Horatio N. Hewes,	320	0.58 mile,	\$47,780 00		\$37,430 00	
Hawley & Barton,	do	1 bridge abutment,	1,980 00		1,665 00	
E. Corning & Co.,	do	1 do superstr'e,	1,000 00		840 00	
				50,710 00		39,935 00

Ryan & Swan,.....	327	1 mile,.....	\$28,560 00	\$28,290 00	34,145 00
Hawley & Barton,.....	do	1 bridge abutment,	1,930 00	1,665 00	
Thomas King,.....	do	1 culvert,.....	3,600 00	3,350 00	
E. Corning & Co.,.....	do	1 bridge superstr'e,	1,000 00	840 00	
					35,090 00
Orville Clark,.....	328	1 mile,.....	\$35,640 00	\$31,790 00	31,790 00
Hawley & Barton,.....	329	1 mile,.....	\$30,640 00	\$28,550 00	
N. W. Baldwin,.....	do	2 bridge abutm'ts,	4,436 00	3,194 30	
S. Parmelee & Co.,.....	do	2 culverts,.....	6,388 00	5,903 75	
E. Corning & Co.,.....	do	2 bridge superstr'e,	2,500 00	2,352 00	
					43,964 00
John P. Smith,.....	330	1 mile,.....	\$38,125 00	\$37,520 00	40,000 05
Hilton & Terry,.....	do	1 waste weir,....	1,080 00	1,307 00	
Hawley & Barton,.....	do	2 bridge abutm'ts,	3,860 00	3,280 00	
H. N. Hewes,.....	do	1 culvert,.....	4,360 00	4,283 80	
E. Corning & Co.,.....	do	2 bridge superstr's,	2,000 00	1,680 00	
					49,425 00
George H. Boughton & Co.,.	331	1 mile,.....	\$32,270 00	\$28,090 00	48,070 80
Hilton & Terry,.....	do	1 bridge abutment,	2,206 00	1,963 00	
Hawley & Barton,.....	do	1 culvert,.....	1,434 00	1,282 00	
E. Corning & Co.,.....	do	1 bridge superstr'e,	1,500 00	1,512 00	
					37,410 00
Gideon Hard,.....	332	1 mile,.....	\$35,730 00	\$31,575 00	32,847 00
Hilton & Terry,.....	do	1 bridge abutment,	2,206 00	1,963 00	
Gideon Hard,.....	do	1 culvert,.....	2,568 00	1,856 00	
E. Corning & Co.,.....	do	1 bridge superstr'e,	1,500 00	1,512 00	
					42,004 00
					36,906 00

STATEMENT--(CONTINUED.)

NAMES OF CONTRACTORS.				No. of section.	Length of section or No. of structure.	Cost at contract prices.	Totals.
Nathan G. King & Co.,				333	1 mile,	\$47,270 00	\$51,780 75
S. Parmelee & Co.,				do	2 culverts,	4,510 75	
Geo. Reynale & Co.,				334	1 mile,	37,046 00	46,214 00
S. Pierce & Co.,				do	2 bridge abutm'ts, ..	3,479 00	
do				do	2 culverts,	4,009 00	
E. Corning & Co.,				do	2 bridge superstr's,	1,680 00	
						54,127 00	
Thomas King,				335	1 mile,	31,950 00	39,641 00
S. Pierce & Co.,				do	2 bridge abutm'ts, ..	3,245 00	
Hawley & Barton,				do	2 culverts,	2,094 00	
E. Corning & Co.,				do	2 bridge superstr's,	2,352 00	
						41,653 00	
Hawley & Barton,				336	1 mile,	25,820 00	34,276 00
Chamberlain & Bradley, ...				do	2 bridge abutm'ts, ..	3,707 00	
S. Parmelee & Co.,				do	1 culvert,	1,725 00	
E. Corning & Co.,				do	2 bridge superstr's,	3,024 00	
						38,744 00	
W. L. & H. W. Lewis,				337	3-4 mile,	3,560 00	3,900 00
B. & J. Carpenter,				do	1 waste weir,	340 00	
E. Corning & Co.,				7	1 bridge superstr'e,	1,920 00	1,920 00
Mountain ridge,						1,500 00	

E. Corning & Co., Mountain ridge,	8	1	do	1,500 00	1,500 00	1,920 00	1,920 00
E. Corning & Co., Mountain ridge,	14	2	do	3,000 00	3,000 00	4,056 00	4,056 00
Chauncey Joslin,	348 to 353	6	miles,	53,340 00	53,340 00	40,990 00	40,990 00
Henry S. Wells,	do	Bridge ab. & culv.		3,920 00	3,920 00	4,120 00	4,120 00
Oswald & Buell,	354 to 359	5½	miles,	47,640 00	47,640 00	35,750 00	35,750 00
Henry S. Wells,	do	Bridge abs. & culvs.		1,520 00	1,520 00	1,720 00	1,720 00
John McCabe & Co.,	360	1	mile,	39,510 00	39,510 00	38,540 00	38,540 00
Alanson Webster,	do	1	waste weir,	1,450 00	1,450 00	1,527 00	1,527 00
Clark & Tift,	do	1	bridge abutment,	1,930 00	1,930 00	1,797 50	1,797 50
S. Parmelee & Co.,	do	2	culverts,	7,100 00	7,100 00	4,717 50	4,717 50
E. Corning & Co.,	do	1	bridge superstr'e,	500 00	500 00	700 00	700 00
Jacob Hinds,	361	1	mile,	84,960 00	84,960 00	73,550 00	73,550 00
Clark & Tift,	do	1	bridge abutment,	1,980 00	1,980 00	1,727 50	1,727 50
E. Corning & Co.,	do	1	do superstr'e,	1,000 00	1,000 00	840 00	840 00
Theodore D. Barton,	362	1	mile,	78,000 00	78,000 00	68,140 00	68,140 00
Clark & Tift,	do	1	bridge abutment,	1,930 00	1,930 00	1,727 50	1,727 50
S. Parmelee & Co.,	do	1	culvert,	3,108 00	3,108 00	1,936 25	1,936 25
E. Corning & Co.,	do	1	bridge superstr'e,	1,000 00	1,000 00	840 00	840 00
					84,038 00		72,643 75
					50,490 00		47,212 00
					87,890 00		75,117 50
					49,160 00		37,470 00
					57,260 00		45,110 00

STATEMENT—(CONTINUED.)

NAMES OF CONTRACTORS.	No. of section.	Length of section or No. of structures.	Engineer's estimate.	Totals.	Cost at contract prices.	Totals.
Oswald & Buell,.....	363	1 mile,.....	\$40,960 00		\$35,340 00	
Clark & Tift,.....	do	1 bridge abutment,	1,930 00		1,727 50	
E. Corning & Co.,.....	do	1 do superstr'e,	1,000 00		840 00	
				\$43,890 00		\$37,907 50
Martindale & Ferrell,.....	364	1 mile,.....	37,328 00		32,020 00	
Clark & Tift,.....	do	1 bridge abutment,	1,930 00		1,727 50	
E. Corning & Co.,.....	do	1 do superstr'e,	1,000 00		840 00	
				40,258 00		34,587 50
George Lanman,.....	365	1 mile,.....	37,240 00		36,230 00	
Clark & Tift,.....	do	1 bridge abutment,	1,930 00		1,727 50	
E. Corning & Co.,.....	do	1 do superstr'e,	1,000 00		840 00	
				40,170 00		38,797 50
Williams & Palmeter,.....	366	1 mile,.....	75,640 00		69,400 00	
				75,640 00		69,400 00
Clark & Tift,.....	367	94.100 mile,.....	60,140 00		54,590 00	
Henry S. Wells,.....	do	1 culvert,.....	7,020 00		5,790 00	
				67,160 00		60,380 00
Lock section and guard-lock at Black Rock, Sutton & Phillips, contract's,	{}	{ 1-8 mile,.... 1 lock,.....}	26,730 00		23,340 00	
				26,730 00		23,840 00

Sutton & Phillips,	368	99.100 mile,	23,520 00	27,226 00	18,160 00	21,629 50
Clark & Tift,	do	1 bridge abutment,	2,206 00		1,957 50	
E. Corning & Co.,	do	1 do superstr'e,	1,500 00		1,512 00	
Wood & Clark,	369	1 mile,	34,520 00		32,000 00	
Clark & Tift,	do	1 bridge abutment,	2,206 00		1,957 50	
E. Corning & Co.,	do	1 do superstr'e,	1,500 00		1,428 00	
Ball & Barton,	370	57.100 mile,	63,320 00	38,226 00	55,890 00	35,385 50
Clark & Tift,	do	1 bridge abutment,	1,930 00		1,727 50	
E. Corning & Co.,	do	1 do superstr'e,	1,000 00		840 00	
Wood & Seymour, .....	....	Valve gates for 2 locks,	2,000 00	66,250 00	1,618 98	58,457 50
				2,000 00		1,618 98
				\$1,623,833 00		\$1,451,594 83

ENLARGEMENT OF THE ERIE CANAL.

ABSTRACT

Of the preceding detailed estimates of work let Dec. 29th, 1851.

WORK.	Miles in length or No. of structures.	Engineers' esti- mate.	Cost at contract prices.
Sections,	121.92	\$4,558,777 14	\$4,105,446 40
Locks, valves, &c.,	5	117,516 00	109,864 36
Culverts,	109	328,103 00	273,601 45
Aqueducts,	2	47,464 00	37,701 35
Waste weirs,	15	16,438 60	15,230 27
Bridge superstructures, &c.	150	550,017 62	424,730 35
		<u>\$5,518,315 76</u>	<u>\$4,966,574 18</u>

The following table shows the number and length of sections, and kind of mechanical structures on the Western division of the enlargement of the Erie canal, and the present condition of the same January 24th, 1852.

SECTIONS AND STRUCTURES.	No.	Length in miles.	Miles or number completed.	Miles or number partly completed.	Miles or number re- cently contracted.
Sections,	168	143.41	7.66	13.89	121.92
Ship locks,	1	.....	.....	1	
Double do	5	.....	5		
Single do	14	.....	9	2	3
Guard do	2	.....	.....	1	1
Weigh do	1	.....	1		
Aqueducts,	5	.....	2	1	2
Culverts,	120	.....	9	2	109
Waste weirs,	16	.....	.....	1	15
Bridges,	81	.....	37	6	38
Road bridges of iron,	87	.....	6	0	81
Farm do do	32	.....	0	0	32
Erie basin slips, . . . . .	.....	.....	.....	1	
Ohio do . . . . .	.....	.....	1		
do do slips, . . . . .	.....	.....	1		

GENESEE VALLEY CANAL.

STATEMENT showing the length of sections, kind and number of structures, and their present condition Jan. 1st, 1852.

SECTIONS AND KIND OF STRUCTURES.	Length of section and No. of structures.				
	Total num-ber.	Complete.	Commenced & not complete.	Not comm'ed, let in 1850.	Not comm'ed, let in 1851.
<i>Complete in 1840.</i>					
Sections, miles,	52	52	....	....
Locks, lift,	19	19	....	....
guard,	2	2	....	....
Aqueducts,	8	8	....	....
Culverts,	57	57	....	....
Waste weirs,	16	16	....	....
Dams,	5	5	....	....
Bridges, road,	38	38	....	....
towing path,	3	3	....	....
farm,	65	65	....	....
Lock houses,	13	13	....	....
<i>Commenced or resumed since 1847.</i>					
Sections, miles,	66	35	13	15	3
Feeders, do	3 $\frac{1}{2}$	2 $\frac{3}{4}$	....	....	2 $\frac{3}{4}$
Locks, lift,	96	61	20	13	2
guard,	1	1	....	....
Aqueducts,	9	7	1	....	1
Culverts,	29	14	....	12	3
Waste weirs,	15	10	....	5	
Dam and bulkhead,	1	1	....	....
Reservoirs,	2	....	....	....	2
Bridges, road,	52	33	....	16	3
towing-path and road,	5	3	....	2	
do do farm,	1	1	....	....
farm,	52	32	....	20	
foot,	1	1	....	....

ENLARGEMENT OF ERIE CANAL.

Western Division.

The western division of the Erie canal extends from the east line of Wayne county to the city of Buffalo, and is 155 miles in length on the present line, including the Hamburg canal, slips &c., at Buffalo. All the work on this division is now under contract, and is to be completed for navigation as per terms of contract, April 1st, 1854.

Line shortened.

Important improvements have been made in the location of the enlargement between these points, by which a saving in distance of 11 miles has been effected. The principal improvements in the locations have been made by the adoption of independent lines east and west of the village of Lyons, between Macedon and Rochester, and at Holley. The advantages secured to the people by diminishing the distance, are immense.

In 1850, there were 20,300 lockages at the first lock east of Rochester. The enlarged boats will have an average capacity of 224 tons. Should the down freight, as on the old canal, be to the up freight as 4 to 1, the average load both ways would be equal to 140 tons.

The annual saving in cost of transportation secured by the decrease of distance is equal to the expense of moving 2,300 boat loads of 140 tons each, over eleven miles. This estimate contemplates no more lockages in 1854, when the enlargement is completed, than were made in 1853.

We have then the following statement :

20,300 loads of 140 tons each, = 2,842,000 tons, moved over eleven miles, or 31,262,000 tons moved over one mile.

In the State Engineer and Surveyor's report to the Legislature in 1851, the estimated cost of transport on the enlarged canal, including tolls, is put down at seven mills per ton per mile. Taking this as the cost of movement per ton, and 31,262,000 tons

× 7 mills, gives as the actual annual saving in cost of transportation, the sum of..... \$218,834 00

The average annual cost of repairs per mile on the

Erie and Champlain canals, from 1826 to 1850, is

\$746, × 11 miles, gives annual saving in repairs, 8,206 00

Total annual saving in cost of transportation and repairs, by shortening 11 miles,..... \$227,040 00

The cost of enlargement on the several new routes adopted, will not probably exceed the cost of enlargement on the line of the old canal, by the sum of \$500,000.

The amount thus annually saved by the improvements in question, will pay an interest of 7 per cent. on the sum of \$3,243,428, and will be equivalent to a reduction of tolls on the present tariff of prices on the Erie canal, of near 13 per cent. every three years, a saving in the cost of transportation alone will be secured, greater in amount than the difference of cost between the enlargement on the old and independent lines.

Every improvement that tends to cheapen the cost of transportation, through our channels of trade, is of general interest to the present and future prosperity of the State, and will do something towards securing for the Erie canal the trade of the great west, now vigorously contended for by other and rival routes.

When the last annual report was submitted, the following works on the western division had been completed or were then under contract, viz: Sections 212, 219, 225, 226, 227, 231, a section through Palmyra, (all in Wayne county,) and sections 1 and 2, east of Rochester; also weigh lock and house, and work connected therewith, extension of change bridge, and sections through Brockport, Albion, and Medina, and sections 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14, through "Mountain Ridge," at Lockport, and sections 1 and 2 in the city of Buffalo. Also locks at Clyde and Berlin, and lock 59 west of Lyons, lock 61 at Lockville, and 3 locks east of Rochester, with valve gates for same, guard lock at Sulphur Springs, and ship lock at Black Rock. Also waste weir on section 212, Mud Creek aqueduct at Lyons, and aqueduct at Medina, Melvin Brook culvert, at Clyde, and

composite culverts on 226 and 227. Also culverts at Brookport, and bridges on section 226, bridges at Lockville and Palmyra, and one culvert; also bridges on Monroe, Smith, Alexander and Allen streets, at Rochester, and at Brockport, Albion, Medina, Lockport, and at Buffalo. Also the Main and Hamburg-street canal, the Erie basin and slips, the Ohio basin, and the swing bridge at the Ohio basin.

Among the first work put under contract on this division after the act authorizing the enlargement was passed in 1835, was the Rochester aqueduct, one lock at Lyons, two at Lockville, one single and one double lock at Macedon. Subsequently Mud creek aqueduct, with section, culverts and bridges at Lyons, Lockville, Macedon and Rochester.

Most of these works were completed previous to the suspension in 1842.

In the fall of 1847, sections 225, 226 and 227, with culverts and bridges located thereon, and locks 59 and 66, and Mud creek aqueduct, all between Lyons and Newark, were resumed under new and old contracts. These, together with part of a section at Clyde, a section, bridges and culvert at Palmyra, with section and locks Nos. 1 and 2, east of Rochester, were completed or nearly so, and brought into use last spring.

A new weigh lock at Rochester with weigh house and scale, and offices for collector, weigh master and engineers, has been completed and in use since 1850. The lock gates are opened and closed by water power, and with great ease and dispatch. It is believed that this lock is unsurpassed in the perfection of its parts by any similar work in the State.

The weigh scales were manufactured by Messrs. Duryee & Forsyth, and are a specimen work of great power, merit and accuracy. They can weigh a burden of 400 tons without endangering their safety. 280 boats can easily be weighed every 24 hours. Additional facilities to expedite the weighing of boats may be secured at this lock, by removing the change bridge some 20 rods towards the aqueduct. This would allow boatmen to tow their boats directly into the lock which the bridge now prevents.

Sections.

At the date of the last annual report of the State Engineer and Surveyor, the following section work had been nearly completed and brought into use on the enlargement on the western division, viz:

Section No. 225, near Lyons,

do 226, do

do 227, do

do at Lockville,

do at Palmyra,

do at Macedon,

do No. 1, at Rochester,

do 2, do

do 3, do

do 5, through mountain ridge at Lockport,

do 1 and 2, in the city of Buffalo.

At the same time the following sections had been put under contract, and were in progress of construction, viz:

Part of section 212, at Clyde,

do 219, at Lyons,

do 231, at Newark,

do 1 and 2, east of Rochester,

do at Brockport,

do at Albion, section at Medina, and sections 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14, through the "mountain ridge" at Lockport, the Main and Hamburg street canal, the Erie basin and slips, and the Ohio basin.

Important improvements have been made in the line of canal at various places.

Section 212 at Clyde, let to Rogers & Layton, was so far completed as to be used during the last seasons of navigation. The Clyde river, subject to extreme and sudden freshets, runs contiguous thereto its whole length. This section was flooded several times during the last winter and spring, which added greatly to the cost of construction. It will be completed for navigation early in the spring.

The sections, through the villages of Lyons and Newark, could be completed in the spring if the bridge contracts did not prevent. The section through Palmyra is finished, and is a work of great durability.

The independent line between Macedon & Brighton diverges from the old line of canal, three chains west of the Macedon change bridge, and passes nearly through the centre of Macedon or Perrinton swamp to Fairport. From thence it takes nearly a direct course to Brighton, and saves $8\frac{1}{2}$ miles distance from the present line.

The swamp sections lie considerably below the surface of water in the old canal, and will be expensive to drain on that account. The water in the old canal acts under a head and percolates freely through the soil. On filling the canal in the spring, the swamp is also filled. It is therefore believed that steam excavators can be profitably employed on this work.

Objections have been urged to the new line in question on account of the heavy embankments required. It is not probably known to those who regard the new as more dangerous than the old location, that the new line has less length of high embankment than the old. On the old canal there are about 2,200 feet of embankment raised from 60 to 75 feet above the adjacent flats, while on the new there are less than 500 feet of equal or greater height.

Few breaks have ever occurred on those portions of the canal where the banks are not attached to the natural hills.

The plan of protecting the banks and prism with timber and sheet pile docking, will obviate to a great extent the liabilities to failure throughout the heavy portions of the new canal. Muskrats and crabs, that have caused and do cause the principal failures in embankments, cannot enter the banks below the surface of the water, if at all. The finish contemplated will be such as to effectually remove this cause of danger.

The liabilities of the new canal, when completed from Fairport to Brighton, it is confidently believed will not be greater per mile than on the old line.

Sections 1 and 2 at Rochester, together with sections at Brockport, Albion and Medina will be nearly completed and ready for use on the opening of navigation. Sand-stone rock is found on about one half of the Medina section. Slope wall instead of docking will be required where the rock occurs.

Sections 5 to 14, inclusive, through the mountain ridge at Lockport, have progressed slowly the past season. The early completion of these sections, is important for the purpose of supplying water on the eastern part of the division. Additional force will be required to ensure completion by the spring of 1853. The business of the canal requires that these sections be finished as early as that time.

Sections Nos. 3 and 4, at Buffalo, now answering to 370 as let, should be immediately enlarged. The channel is so narrow that a very strong current is driven through it when the wind is blowing down the lake, so powerful as to make it necessary at times to double teams to tow loaded boats up.

I understand the contractors for the new work entered upon it the first of January, and intend to complete the widening before the opening of navigation. This will prove of great benefit to the canal.

There are a good many points throughout the western division where the canal is narrow, and where aquatic grasses abound to such an extent as to materially arrest the flow of water during the dry season when water is most needed. It is therefore recommended that the work of enlargement be commenced at once at such places as will facilitate the business of the canal most. Many such localities are found between Rochester and Lockport.

The dredging of Black Rock harbor should be commenced early and so carried forward as to enlarge at the earliest moment the volume of flow down the canal. The demand for more water than could be passed into the canal below the mills during the dry season of last year, was imperious. This work should not therefore be delayed. It is the only effectual way to prevent the delays to navigation annually experienced for want of water on the levels between Black Rock and Montezuma.

When the enlargement levels are in use, it is to be feared that some of the railroad bridges over the canal in the city of Rochester will require to be raised. At least 12 feet elevation will be required above the water to pass the enlarged boats, and avoid a class of casualties now too frequent on the canal.

When our estimates were made, the hard-pan and quick-sand classification was not contemplated. The restoration of these items by the Canal Board will enhance the cost of the work.

Locks.

There are 21 lift locks on the western division. Fifteen are already enlarged and in use, and four remain to be constructed.

Pit lock, the most eastern, will be abandoned when the new line across the Montezuma marshes comes into use. The Clyde lock is enlarged, and came into use in the spring of 1851. The location is 90 chains west from the old lock in the village of Clyde.

Lock Berlin is located on an independent line of canal from Berlin to Lyons, and cannot be used before the spring of 1854. The Lyons lock was one of the first enlarged, and was completed previous to 1842. Lock 59 between Lyons and Lockville was commenced and the lower courses laid before the suspension in 1842. It was completed and brought into use in the spring of 1849. Lock 61 at Lockville was contracted in 1847 and completed for use in 1849. Locks 60 and 62 at the same place, and the Macedon locks were enlarged before the suspension. Double enlarged locks were constructed in place of the upper lock at Macedon.

The adoption of the independent line from Macedon to Brighton, will require a change in the location of this lock. This, with the Pittsford and lower Brighton locks, will be located on the independent line between Brighton village and Allen's creek.

In place of the five old locks at Brighton, the descent is overcome by four enlarged locks. Three of these will be in use on the opening of navigation.

The locks on the said Independent line cannot be brought into use until the enlargement is completed.

One sett of the combined locks at Lockport were completed before the suspension. The south sett were let and completed soon after the resumption.

The original aggregate lift of the 5 old locks, was 55 feet. The new locks containing about 25,000 cubic yards of cement masonry, present one of the most imposing views on the whole canal, and impresses the beholder more forcibly than any other work on its line with the wisdom and boldness of the original projectors.

The new enlarged guard lock at Sulphur Springs has been in use since 1849. The freshets in the Tonawanda creek, with which the canal connects, rendered this work indispensable.

A series of discharge gates have been put into the Tonawanda dam, by which the freshets of the creek are partially controlled, so that the injury to the towing path on its border, formerly caused by the sudden rise of the stream is now avoided except in extreme floods. The capacity of these discharge gates has been ascertained since the last annual report, and found to be great enough to justify the abandonment of the guard lock at that place.

It has also been ascertained that since these gates were put in, no necessity has existed requiring the gates of the guard lock to be closed. It is not proposed to reconstruct this lock.

An additional waste weir, with one hundred feet waste, located near the culvert west of the village is under contract, and will provide for the easy and safe discharge of any surplus flow from the creek up the canal.

The old guard lock at Black Rock, with some repairs, will endure until the new one is completed.

The masonry of the ship lock at Black Rock, commenced previous to 1842, is completed, except a few pieces of the coping.

Heavy dredging above and below remains to be done before the lock can come into use.

It is important that this work be commenced immediately, in order to have the benefit of the new lock the coming season. The old one is in a dilapidated condition, and cannot safely be relied upon for another years' service.

The guard lock near the south end of the Genesee River feeder at Rochester, is to be taken up and relaid near the junction of said feeder with the Erie Canal.

This lock was originally constructed at the head of the feeder, and was required to both protect the canal from floods, and keep open a navigable communication with the river. It was rebuilt just at the time when the lower part of the Genesee Valley canal was completed, and some years before the new aqueduct at Rochester was finished. A dam was constructed across the Genesee river, simultaneous with the Genesee Valley canal, a little below the guard lock in question.

The early completion of these works, was with a view to provide against a serious interruption to navigation, anticipated by the failure of the old aqueduct across the river before the new one could be completed.

The dam above mentioned set the water of the river back as far as Black Creek, so as to flood the low grounds up its valleys, and induce, as the citizens believed, a sickness, not before known.

The impression became general, and soon after the new aqueduct was completed, the said dam, regarded as a nuisance, was torn down by the sheriff of the county.

Then it became necessary, in order to make the feeder available to extend it up the river about one-third of a mile, and construct a permanent bulk head of cement masonry to control the freshets, as before.

The guard lock from that time has been entirely useless in its present position.

When the canal is enlarged, the surface level of the water from Lockport to the first lock east of Rochester will be raised about eighteen inches.

This will prevent the use of the said feeder except as an important auxilliary in filling the canal, or in maintaining navigation east of Rochester, when by any cause, it is suspended west of that city.

Its continuance is therefore deemed indispensable to the business of the canal, as also to accommodate the interests created by and built up along its borders.

During the dry season, for several years past, when the river was too low to feed into the canal, the waters of the feeder became impure and stagnant, and proved a great nuisance to the health and lives of the inhabitants in that part of the city.

Repeated petitions have been sent to the Canal Board, to abate in some way the nuisance, and remove the evil. Distinguished medical men agree that the great prevalence of disease and mortality along its borders, for several years past, is mainly attributable to this cause.

The removal of the lock, in question, it is believed, will restore the usual health to this part of the city.

The lock will prevent the waters of the canal from setting up the feeder and becoming stagnant as before, and will allow the waters of the river to pass freely down at all times and flow over a waste south of the lock, into the river.

A lock tender is now an indispensable adjunct and must be constantly employed to regulate the flow and control the gates. When the change is effected the feeding can be regulated by officers at the weigh lock, and without extra cost to the State.

When the enlargement is completed this can only be made available as a constant feeder by extending it through the low grounds south of Jefferson street to the level below the first lock.

Surveys and estimates of the cost of this extension were submitted to the Canal Board, previous to the new location of the

canal and locks east of Rochester. The practicability of the extension was considered by the Board, when the said Brighton locks were located, and its construction would be important to business of Rochester in maintaining the navigation east of that city when a failure occurs west.

A dam thrown across the canal west of the G. V. canal would provide for maintaining the enlargement depth in the city, to the first lock, while this feeder, entering below the lock would maintain the levels east.

Bridges.

The estimates for the enlargement on the western division were chiefly made on the plan of constructing wooden bridges, with chain chords after my plan, with the *farm bridges* resting on timber supports, instead of abutments of masonry; the estimates provided for the Paynizing of the timber. Several plans of wood and iron bridges were presented for the consideration and adoption of the Canal Board previous to the letting. After an examination of their respective merits the Board concluded to invite propositions on all of them. After a canvass of said propositions, it was determined as the true economy, to construct bridges of iron chiefly through the cities and villages, and on the public highways in all cases, with both the iron and wood structures resting on stone abutments instead of timber bents. The cost of construction will therefore exceed the estimate.

N. J. Beach & Whipple's plans I regard as beautiful structures, and very perfect in the combination of their parts. These structures will have great durability and cannot fail to add much to the comfort and neatness of the enlargement finish, through cities and villages on the line.

By the use of iron bridges the road way can be let down 15 to 18 inches lower than in wood structures. The ascent is much more easily overcome, as the embankments are correspondingly lowered, while heavy damages are saved.

The height of the ordinary wood bridge landings in villages have caused damages in some instances, in amount quite equal to the cost of an iron bridge.

Aqueducts.

There are five aqueducts on the western division. Three remain to be completed, viz: One over Mud creek at Palmyra; one over the railroad at Brighton, and one over the Oak Orchard creek at Medina. The latter was commenced last spring and is to be built under the arch of the old one. The foundation is in and the masonry raised from 8 to 10 feet in height. The centering is up and two courses of the arch stone laid on either side, and a large quantity of stone dressed and prepared for use early in the spring. It can be completed by mid-summer.

Culverts.

There are 120 culverts on this division; 9 have been enlarged and 109 recently put under contract.

The Melvin brook culvert has double arches of six feet chord each, and is situate one mile west from Clyde. It was completed for use last spring. It is sustained on bearing piles. Its location is in the marsh near the junction of the brook with the Clyde river.

The unusual number of freshets on the streams during the winter and spring of 1851, greatly embarrassed this and other works in the vicinity. Much credit is due the contractor, Robert S. Nellis, Esq., for crowding this work to an early completion. The masonry and embankments were put in and the work got into navigable use by night and day labor, and in less than three weeks preceding the opening of the canal. It is a well made and permanent work.

The road culverts at Fish creek valley, and the culverts at 18 mile creek, among the largest to be built west of Rochester, and several of the smaller culverts can be mostly constructed during the summer months, and without interfering with the navigation.

The Irondequoit, Allen's creek and other culverts on the independent line between Macedon and Brighton, should be commenced without delay. The first two named are heavy structures and cannot be delayed without greatly embarrassing other work.

Waste weirs.

Safety to the enlarged canal, requires that the waste weirs be increased in number, and have much more ample wastes than the old ones. This only will ensure uniformity to the levels, and obviate the liability to which the old canal has always been exposed.

Few of the enlarged waste weirs have been constructed.

Erie basin and breakwater.

The rapid increase of commerce at Buffalo for several years past, has shown the necessity of enlarged commercial facilities, for canal boats at that place. The transshipment of freight during the pressure of the business season, with safety and dispatch to the navigation, long since demanded at the hands of the State a work commensurate, to meet the wants of this growing trade.

The Erie basin and the three slips connecting it with the canal, will, when completed, do this, and prevent the jams, and loss of property now so frequent, and give the required facilities to the growing business of the canals. The pier, or breakwater, is 50 feet wide, and 2,100 feet in length, and has such relative location with the government works, as to effectually and safely harbor boats during the severest storms of the lake.

The dimensions of the sea wall have been increased by the Canal Board, since the last annual report. The wall laid in 1850, was found inadequate to withstand the force of the waves. About 300 yards was swept from its foundation by the violence of the great storm in March last.

The masonry laid during the past year is more massive in character, and it is believed, when finished, will withstand in safety, the storms of the lake to which it is exposed.

A continuous row of heavy piles driven close together, encompass the breakwater. Within them on the basin side, cribs of timber 20 feet long, filled with stone, and resting side by side, form the foundation of the sea wall, which is to be carried up 14 feet above the water. The space between the cribs and the

piles on the sea side, is filled with loose stone, and to be carried up on a regular slope to the top of said wall, and to be secured with a Scotch coping. The outside piles are to be sustained from being pressed over, by a continuous crib-work on the sea side, which will also prove a protection to the pier in storms, by breaking the violence of the waves.

Some provisions will be required to prevent the entire destruction to boats, that may be driven on to the breakwater, while attempting to make the harbor. Several boats and cargoes have been wrecked the past year on this work.

A row of heavy piles, driven outside the cribs, extending 10 to 15 feet above the water, would perhaps form the best protection to shipping, in such emergencies.

The annual destruction of property and life, can hardly be avoided at this place.

Before the breakwater was commenced vessels failing to make the harbor, were driven on to the sandy beach, and rarely with injury or loss of cargo or life. An adequate protection outside the breakwater is therefore earnestly recommended.

About one-third of the masonry in the breakwater was laid the last year, and a large amount of material provided for the coming season. New dredges have been purchased, and preparation made for completing the work the present year.

One of the slips is completed, and one nearly excavated. The dredging of the basin has been commenced. The cost of this work will not largely exceed the original estimate.

Supply of water.

When the enlargement is completed, 31,000 cubic feet of water per minute will be required to pass the locks at Lockport, and 14,000 cubic feet through the Rochester aqueduct to supply the demand for the canal occasioned by evaporation, filtration, lockages and wastes. The following dimensions adopted by the Canal Board, embody the results of the observations, gages and estimates made by different engineers through a series of years, and

are therefore believed to be as low and economical as the necessities of the canal will allow.

Table showing the dimensions of the enlarged canal at sundry points on the western division as established by the Canal Board:

Designation of places.	Depth of water. Feet.	Width of surface. Feet.	Mean width. Feet.
From east line of Wayne county to west lock in Brighton,	7	70	
At head of said lock,	8	70	
At east end of Rochester aqueduct, ..	8	70	
At 100 feet west of aqueduct,	9	70	60
At Lyell street, Rochester,	9	70	62
At foot of locks at Lockport,	9	100	91
Through rock cut at Lockport, first 2½ miles,	9	62	62
Through rock cut at Lockport, 2½ miles further,	8	90	90
From rock cut to Tonawanda creek, .	8	100	
From Pendleton to Black Rock,	8	100	
From Black Rock to Buffalo,	8	150	

The following are the resolutions of the Canal Board fixing the dimensions of the enlargement between the first lock east of Rochester and Lockport:

Resolution of the Canal Board, passed September 16th, 1850.

At the lowest lock at Lockport, the mean width of the water-way of said canal shall be ninety one feet, and the depth of the same nine feet, and from thence the water channel of said canal shall regularly diminish (except when a saving of expense will warrant a wider channel) to a mean width of sixty-two feet, and nine feet depth of water at the point where the present enlarged canal in the city of Rochester is sixty-two feet in mean width, thence to the Rochester aqueduct to have a mean width of sixty-two feet and a depth of nine feet water, and thence to the easterly end of the said aqueduct as the same now is, and thence to the first lock east of Rochester, said canal to have a mean width of water-way of sixty feet, and a depth of eight feet.

Resolved, That the enlarged Erie canal between Lockport and the first lock east of Rochester be, and the same is hereby ordered to be constructed upon the following described level, to wit:

Commencing at the foot of the lowest lock at Lockport, at a point seven feet six inches above the lower mitre sill thereof, thence on a regular inclination to a point seven feet four inches above the level of the Rochester aqueduct at the distance of one hundred feet west of the same, and thence on a regular inclination to the first lock east of Rochester, to a point seven feet above the level of the bottom of said aqueduct. The above to be the top-water level of said canal, and the bottom of said canal to be, at the said lock at Lockport, nine feet below the said top water level, thence on a regular inclination to a point one hundred feet west of said aqueduct, and nine feet below said top-water level, thence on a regular inclination to the bottom of said aqueduct, and thence along the bottom of the same to the easterly end of the same, and thence to the first Lock east of Rochester, eight feet below the said top water level.

To pass so large a volume of water through the dimensions adopted, without intermission to the navigation, contemplates no obstructions to its flow, except from boats and craft navigating the canal.

The inclination of the surface and bottom planes of the canal between Lockport and the aqueduct at Rochester, is about 42 inches.

The aquatic grasses now grow rapidly in prism of canal between Rochester and Pendleton, seriously interrupting the flow of the water during the dry season. They require constant mowing to keep up navigation. These grasses first made their appearance between Pendleton and Lockport. They seem to have been annually extending eastward until they have now become a formidable hindrance to the business of the canal.

The enlargement will remove to some extent, this and many other causes that have annually embarrassed and delayed navigation throughout the division.

GENESEE VALLEY CANAL.

The Genesee Valley canal, including the Dansville side cut, is 118 miles in length. There are 1057 feet of lockage on the canal proper, and 106 lift locks. Ten of these locks occur between Rochester and Mount Morris, 50 between the Shakers and the deep cut section, over a distance of 13 miles, 11 between the deep cut and the Genesee river feeder, at Rousesville, and 35 between there and the Allegany river, at Olean.

Fifty-two miles, extending from Rochester to Dansville, have been in use since 1840. Eighty-eight miles was in navigable condition during the last year.

The Genesee Valley canal follows the western border of the Genesee Valley from Rochester to near Mount Morris. From thence crossing the river, it passes up the Canaseraga and Cashquo vallies to Nunda, and thence returns through the deep cut again into the valley of the Genesee. Its course is then along the sloping grounds to Portage, where it re-crosses the river on an aqueduct, 50 feet above the bed of the stream. From Portage it follows the said valley to Belfast, when it bears away to the south-west, following up the Rockville valley to the summit level near New Hudson. This level is about 12 miles in length. From thence the line follows down the Oil creek valley to Hinsdale. Thence down the Ischua into the Olean, thence into the Allegany river, making the distance as traced 107 miles.

Engineering.

The engineer's services on the Genesee Valley canal for the year ending December 31, 1851, has been employed on the completion of 36 miles of canal from the junction to the Genesee river feeder. Also on 27 miles of canal under contract for construction, from Rousesville to Olean, and in surveying and preparing for letting the Oil creek reservoir, three sections of the canal, and 3 miles of the Ischua feeder, connected therewith.

Condition of work, &c.

The Genesee Valley canal from the junction to Olean, was originally commenced in 1838 and 1839. At the time of sug-

pension in 1842, the work was left in various stages of progress. Some of the sections were complete, some half or two-thirds done, while the work on others was but just entered upon, or not commenced.

- The mechanical structures were in a similar condition. The timber docking put in to protect the banks from the freshets in the rivers and creeks, and the timber foundations and frame work of the structures in some localities, are badly decayed, and will require replacing.

Locks.

All the locks, according to the original plan, were to have been of the composite kind, with chamber walls laid dry, and made tight with an inside lining of matched and grooved plank, cement masonry at head and foot was provided for in the said plan, to prevent leakage through the walls. Judging from the actual condition of the locks brought into use, and the immense leakage along and through the walls, and the constant repairs required, I have become satisfied, that it would be good economy for the Canal Board, where the structures are not too far advanced, to change the plan from composite, to stone and cement locks.

The stone throughout the vallies of the Genesee and Oil creek, are not of the best quality for building purposes, being principally of the argillaceous kind. They absorb moisture rapidly, and break under the action of frost. When laid in mortar, they are more durable, and experience has shown that their quality is greatly improved. They absorb readily from the mortar the lime property, and it is believed that masonry laid in cement from this stone, especially if exposed to damp localities, will be more than doubled in its term of duration.

In consideration of the above facts, the Canal Board, during the last year, have changed the plan of two of the locks on the upper part of the line from composite to stone.

The expense of annual repairs is much greater on composite and wood locks, than on stone. On that portion of the canal between the Genesee River feeder and Olean, there were con-

tracted in 1850, 15 stone, and the completion of 18 composite locks. Since then two of the composite locks have been changed to stone, as above. There are 47 composite, 14 wood and one stone lock, in use between the junction and Genesee river feeder. All the composite locks in use, and those now under contract, were commenced previous to 1842. If suitable arrangements can be made, I would therefore recommend as an economic measure, that more of these locks be changed to stone, and that hydraulic cement be used in the construction of masonry throughout the canal, when the work is not too far advanced to justify a change of plan.

¶ The New Hudson quarry is an exception to the above remarks. From it a most excellent quality of sand stone is taken. These cannot be used except in a few structures. The quarry is situated near the north end of the summit level, and about half a mile west of the line of canal, and has an elevation of more than 100 feet above it. The stripping is deep and expensive, and the cost of working and distance of haul such as to limit their use.

Embankments.

The great number of failures in the old banks of the canal that have occurred the past season, show conclusively that old banks are less safe than new ones. Banks annually used and made impervious by sedimentary matter drawn into and deposited as a lining on the face and bottom, will undoubtedly become more and more safe; but when left to the action of rains and frosts for several years, become porous and unsafe, and abound with cavities, where the vegetable matter in the soil has decayed.

Nine years have proved a sufficient time to work great changes in the solidity and compactness of the old banks. It is therefore recommended, in all cases where the old banks are found, to remove the sod to the outside, and plow and comminute thoroughly to the depth of 12 to 18 inches, the material over the bottom and up the slope of the prism. This will be found indispensable to safety.

The heavy breaks that have occurred since the opening of navigation last spring, were exclusively through the old banks, and uniformly disclosed a loose condition of the material.

During the past season, it has been necessary to make expensive and substantial repairs to support the embankment and prism of canal throughout the hilly and sliding region. Loose stone and slope walls have been used for this purpose with good success. Loose stone have also been used in front of old and decayed docking along the river and creeks, and have admirably answered the purpose for which they were used. Slope walls and loose stone will further be needed to give the required stability to the work on the slide section.

The sustaining walls on section 57, above the wooden trunks, remain to be completed, and the rip rap walls between the trunks and the river, to be further strengthened.

Section 54 to 57, including the slide section, have always comprised within their limits, more difficulties to surmount than any other portion of the Genesee Valley canal. The line of canal over this distance, is located along the slope of the hills, which abound in quicksand and numerous springs of water, that are continually saturating the slopes above and below. The foundations of embankments are therefore frequently treacherous. At one time everything indicates permanency, while at another cracks open along the slope until the embankment moves bodily out, carrying from 4,000 to 10,000 cubic yards of material into the valley below. Several such slides have occurred the past season on the old embankments completed in 1839 to 1842. Springs of running water were found in each instance to have been covered in the original embankment several feet below canal bottom. When the canal is filled, and these small cracks occur deep in the embankment, an immense hydrostatic pressure is at once effected, powerful enough to force the heaviest embankments from their foundations.

A heavy annual expenditure for repairs for several years to come cannot therefore be avoided over this portion of the canal. The obstacles and forces to contend with are of the uncertain kind, yet powerful and constant in their effects. Years of well applied labor in strengthening the weak portions, and arresting slides with slope walls and loose stone, can only overcome the dangers that hourly threaten the stability of the work.

Wooden trunks over slides.

Soon after the canal came into our charge, the present plan of wooden aqueducts over the "great slides" was furnished, and strongly recommended as the best and most effectual remedy to overcome the difficulties at these points. The two trunks are each about 400 feet long, and are supported on double bents of timber resting on bearing piles driven deep into the earth. The structures are light and do not disturb the balance of the hill, while they admit the drainage waters from springs above to pass freely under them. It is confidently hoped that time will justify the wisdom of the plan and secure to the State, at this point, a safe and permanent canal. The work has been difficult and expensive.

Deep Cut.

Section 54, known as the "Deep cut" section, severs the ridge of highland dividing the vallies of the Cashuquo and Genesee, and is among the heaviest section work on this canal. The deepest cutting is about 90 feet. Quicksand exists in the prism. Great danger was early apprehended from cutting through this range. It was feared that the arch being once broken, the pressure would be so great on either side as to crowd the quicksand and yielding material up from the bottom of canal, and thus render it impossible to keep the channel open. To prevent this, a row of bearing piles on each side of the prism was driven firmly from 10 to 16 feet in depth along the margin top water line. At one or two places these have been pressed up and out by the sides settling. Heavy slope walls commenced below bottom of canal have been substituted therefor and with success. No farther difficulty of this kind is apprehended.

Watch.

The constant settling of embankments resting on the natural slopes of the hills at sundry points, will require great care and oversight to prevent formidable failures. A daily examination of the banks and slopes, and a constant filling on of material is indispensable to safety, and can alone prevent a heavy annual expenditure for repairs. It is therefore recommended as good

economy to keep day and night watchers on such portions of the line as are evidently exposed to these causes.

Supply of water.

Thirty-six additional miles of the Genesee Valley canal was brought into navigable use last spring, and had to be supplied wholly from the waters of the Genesee river and its tributaries. This increased demand upon the river added largely to the then already existing embarrassments of the hydraulic power at Rochester. During the dry season last year, scarcely half the usual supply was obtained at Rochester from the river. It is due to the people of that city that early and ample provision be made by the State to restore to them, from some source, a supply that shall fully compensate for such diversions. As the country bordering the river and its tributaries becomes more cleared and open, the quantity of drainage and supply must continue to diminish, and the evils to increase. Without some provision to restore what the State has taken away, the embarrassment must continue to grow in magnitude as the business of the canal increases. If the natural power furnished by the river belongs to those who hold titles in fee, then indeed should the State provide some remedy. The courts have decided that the Genesee river is not public property, (see 26 Wendell's Rep. 404.)

It is believed that nothing short of converting the Canandaigua lake into a permanent reservoir, will ever secure to the citizens of Monroe their just natural hydraulic power. It has been shown by careful estimates that the Canandaigua lake can be made into a reservoir with capacity to supply, during 100 days of the dry season of the year, at least 15,000 cubic feet of water per minute, at a sum not exceeding \$200,000. Should this be done, a supply of water that would fairly compensate the Rochester power for the diversion caused by the Genesee Valley canal, could be passed into the river above the miller's dam without detriment to the navigation east of Rochester. Besides the benefits above referred to, the construction of the said reservoir would create one of the most valuable, available water powers within the limits of the State, worth at least a half a million of dollars, and one that

would call into quick and profitable employment the capital and labor of the country.

The fall from the outlet of the Canandaigua to the valley of Mud creek at Palmyra, is about 240 feet. The summit level between the valleys is within one and a half miles of the valley of the outlet. From thence to Palmyra, a distance of 12 miles, the feeder would follow the branch of a valley pushing up from Mud creek, well defined in its outline, and so narrow as to render the construction of dams convenient, and at such short intervals of distance, as to give great and desirable availability. During the dry season from 10,000 to 20,000 cubic feet of water per minute, would form the constant power. More could be obtained during the balance of the year. The power now sleeping in the bosom of that lake almost valueless, that could be used without detriment to any interest, is immense, and can be made to propel throughout the whole year, twice the machinery now in use in the city of Rochester. It is only necessary to command six feet in depth of the water of the lake to secure water enough to drive 400 run of stone the year round. Should the low water level of the lake be adopted as the high water level of the reservoir, important benefits would accrue to the inhabitants around its borders. More than four thousand acres of swamp lands would be reclaimed, and the actual health of the people on its shores improved.

Important advantages would also accrue to every mill power now established down the outlet of the lake. These could be supplied with not only the usual quantity of water during the dry season, but with 1,000, 2,000, or 3,000 cubic feet more per minute, than ever before, and that without detriment to the power on the new feeder between the valleys. All these interests would be largely enhanced in value, and the wealth of the country and State greatly increased. By removing the lower Macedon lock two and one half miles towards Palmyra, the said feeder could be taken in above the lock and the canal supplied as far west as Brighton, and as far east as Port Byron, a distance of 68 miles. In view of the foregoing I would respectfully recommend the early conversion of the Canandaigua lake into a permanent reservoir for the purposes of the Erie canal as aforesaid.

Reservoirs.

Thirty miles of the southern portion of the canal is to be supplied entirely from artificial reservoirs constructed in the Oil creek, Ischua, and Rockville vallies.

The Oil creek and Ischua reservoirs are important works, and will require great care and good judgment in construction, to secure to them the permanency that the canal below, and property and lives of the people demand. A failure of either of these when filled, would no doubt prove destructive to a large amount of property and fatal to many lives. With reservoirs of sufficient magnitude there can be no doubt as to the means of supply.

The Ischua and Oil creek valleys receive the drainage waters of an immense area of country, and I have no doubt could their entire waters be reserved for use, they would supply enough to feed the G. V. canal through the whole season of navigation. The plan of reservoir now contemplates a trade of about 30 boats each day. When the business of the canal exceeds this, other reservoirs can be constructed at small expense, up the valleys.

Work under contract.

All the work on the G. V. canal is now under contract, except the Ischua reservoir and the lock houses. There was not sufficient time to complete the surveys and plans for the reservoir previous to the letting, Nov. 18th, 1851.

The surveys and plan for these works will be completed and laid before the Board at an early day.

By the terms of the contracts, this canal will be wholly finished for use the first of April, 1854.

The work has been let at low rates, as low as contractors can do it, and comply with the terms and conditions of their contracts.

Respectfully submitted,

J. B. STILLSON,

Division Engineer,

Western Div'n, State Canals.

Rochester, Dec. 31st, 1851.

NEW-YORK STATE CANALS,

EASTERN DIVISION,

**Comprising the Eastern and Western, or First and Second Sub-divisions of the
Enlargement of the Erie canal and the Black River canal.**

QUANTITIES,

PUBLICLY EXHIBITED FOR THE LETTING AT ALBANY, NOV. 18, 1851.

NEW-YORK STATE CANALS.

QUANTITIES for Superstructure of Bridges, exhibited for letting November 18th, 1851, for the first Sub-division of the Eastern Division.

No. 9.]

19

ITEMS.	IRON SUPERSTRUCTURE.										Wooden superstructure.	
	BEACH'S PLAN.					WHIPPLE'S PLAN.					One road.	One farm.
	ROAD.					ROAD.						
	2 Roadways and sidewalks.	1 Roadway and 2 sidewalks.	Single track.	Farm.		2 Roadways and sidewalks.	1 Roadway and 2 sidewalks.	Single track.	Farm.			
Pounds wrought iron,	16,857	12,236	7,802	3,900		16,500	13,800	8,060	3,600	2,271	1,174	
Pounds cast iron,	11,235	7,852	6,753	4,338		15,000	12,000	10,000	8,280	.....	850
Feet, B. M., hemlock,	9,502	8,858	6,386	3,296		13,000	11,000	7,500	4,000	7,088		
Feet, B. M., oak, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	1,296	3,411
Feet, B. M., white pine, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	9,407	2,568
Ft. B. M., yellow or South'n pine, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	1,195	
Feet, B. M., spruce, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	983	
Feet, B. M., red beech, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	.....	1,750
Pine shingles, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	22,000	
Pounds spike and nails, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	.....	50
Square yards painting,	400	330	270	270		200	125	125	125	270	190	

RESOLUTION OF THE CANAL BOARD, Adopted Oct. 17th, 1851.

Resolved, That proposals will be received for both wood and iron bridges, upon each division of the Erie canal; and that proposers for building iron bridges be requested to furnish plans and estimates therefor, to accompany their proposals; that the plans, estimates and quantities of materials for the bridge superstructure, will not be adopted until after the 18th of November next.

QUANTITIES FOR SECTIONS,

Exhibited at letting November 18, 1851, for the first Sub-division of the Eastern division.

ITEMS.	Section No. 13.	Section No. 14.	Section No. 15.	Section No. 16.	Section No. 17.	Section No. 18.	Section No. 19.
Cubic yards rock excavation,.....	574	.....	3,020	28,410	.....	.....	.....
earth excavation,.....	2,226	14,014	42,816	25,960	18,000	28,270	10,100
embankment,.....	8,792	9,393	24,944	30,525	57,740	8,700	8,520
lining,.....	2,818	1,307	5,384	5,500	3,150	4,180	1,376
puddling,	500	690	1,500	1,250	2,500	650	450
slope wall and pavement,.....	520	1,568	3,906	2,820	8,475	4,844	1,546
vertical wall,	110	.....	.....	.....	293	820	.....
loose stone, .....	.....	.....	.....	.....	.....	.....	.....
Feet B. M. hemlock,.....	10,000	21,400	64,000	53,000	85,000	120,000	30,000
oak,.....	.....	.....	.....	.....	.....	8,000	.....
Rods road,.....	40	.....	.....	.....	.....	90	.....

ITEMS.	Section No. 30.	Section No. 31.	Section No. 32.	Section No. 33.	Section No. 34.	Section No. 35.	Section No. 36.
Cubic yards rock excavation,.....	.....	.....	.....	16,600	.....	.....	.....
earth excavation,.....	23,560	22,450	48,250	36,130	7,440	45,270	18,500
embankment,.....	64,770	58,890	6,800	20,900	8,110	17,540	35,537
lining,.....	6,830	6,100	6,820	5,890	1,470	5,010	2,956
puddling,.....	750	1,360	1,600	500	350	750	1,500
slope wall and pavement,.....	6,538	6,064	6,475	5,520	1,300	4,740	2,609
vertical wall,.....	.....	.....	78	.....	.....	300	.....
loose stone,.....	.....	751	.....	.....	.....	.....	.....
Feet B. M. hemlock,.....	115,000	115,000	115,000	98,000	20,000	92,000	49,600
oak,.....	.....	.....	.....	.....	.....	.....	.....
Rods road,.....	224	88	256	140	50	40	.....

QUANTITIES--(CONTINUED.)

ITEMS.	Section No. 37.	Section No. 40.	Sections Nos. 41, 42, 44 and 45.	Sections Nos. 51, 52, 53, 54, 55, and 56.	Section No. 57.	Section No. 58.	Section No. 59.
Cubic yards rock excavation,.....	.....	.....	795	.....	7,770	17,583	
earth excavation,.....	37,770	25,396	32,910	16,700	32,854	38,167	40,687
embankment,.....	37,870	11,198	28,950	43,000	51,790	47,467	67,250
lining,.....	4,482	4,525	12,230	20,570	5,220	8,640	8,487
puddling,	750	500	1,650	.....	750	500	500
slope wall and pavement,.....	3,988	3,729	6,911	9,890	4,515	9,290	8,000
vertical wall, .....	.....	.....	580	.....	.....	.....
loose stone,.....	.....	.....	.....	.....	.....	7,180	
Feet B. M. hemlock,.....	70,920	41,710	90,000	.....	76,000	137,900	137,400
oak,.....	.....	.....	15,000	.....	.....	.....
Rods road,.....	.....	.....	.....	40	176	.....

ITEMS.	Section No. 60.	Section No. 61.	Section No. 62.	Section No. 75.	Section No. 78.	Section No. 83.	Section No. 84.
Cubic yards rock excavation.....	7,858	.....	.....	2,925	376	.....	760
earth.....	47,840	35,685	26,674	42,733	45,439	24,786	3,210
embankment.....	81,487	48,210	135,673	18,297	17,000	18,470	1,050
lining,.....	8,498	6,624	7,694	6,582	7,639	5,969	340
puddling,.....	2,000	1,500	12,000	500	1,300	200	.....
slope wall and pavement,.....	9,324	6,461	10,040	6,100	7,699	6,293	.....
vertical wall,.....	.....	.....	.....	.....	.....	.....	530
loose stone,.....	6,784	2,916	21,962	.....	2,794	532	.....
Feet B. M. hemlock,.....	137,380	98,160	80,620	105,700	111,640	68,860	13,000
oak,.....	.....	.....	.....	.....	.....	.....	8,000
Roads road,.....	116	292	398	.....	112	.....	.....

NOTICE TO PROPOSERS.

The right to substitute a docking of timber and plank, to be constructed in all respects according to the plan exhibited, in place of the whole or any part of the slope and vertical walls contained in the above estimates of quantities is hereby reserved.

Sections Nos. 80 and 31 will be constructed with 60 feet water surface, and with the docking on both sides. This will diminish the quantity of embankment as given in the above estimates for those sections.

NEW-YORK STATE CANALS.

QUANTITIES for Superstructure of Bridges, exhibited for letting November 18th, 1851, for the first Sub-division of the Eastern Division.

No. 9.]

13

ITEMS.	IRON SUPERSTRUCTURE.										Wooden superstructure.
	BEACH'S PLAN.					WHIPPLE'S PLAN.					
	ROAD.					ROAD.					
	2 Roadways and sidewalks.	1 Roadway and 2 sidewalks.	Single track.	Farm.		2 Roadways and sidewalks.	1 Roadway and 2 sidewalks.	Single track.	1 Farm.		
Pounds wrought iron,	16,857	12,236	7,802	3,900		16,500	13,800	8,060	3,600	2,271	1,174
Pounds cast iron,	11,235	7,852	6,753	4,338		15,000	12,000	10,000	8,280	.....	850
Feet, B. M., hemlock,	9,502	8,858	6,386	3,296		13,000	11,000	7,500	4,000	7,088	
Feet, B. M., oak, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	1,296	3,411
Feet, B. M., white pine, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	9,407	2,568
Ft. B. M., yellow or South'n pine, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	1,195	
Feet, B. M., spruce, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	933	
Feet, B. M., red beech, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	.....	1,750
Pine shingles, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	22,000	
Pounds spike and nails, . . . . .	.....	.....	.....	.....		.....	.....	.....	.....	.....	50
Square yards painting,	400	330	270	270		200	125	125	125	270	120

RESOLUTION OF THE CANAL BOARD, Adopted Oct. 17th, 1851.

Resolved, That proposals will be received for both wood and iron bridges, upon each division of the Erie canal; and that proposers for building iron bridges be requested to furnish plans and estimates therefor, to accompany their proposals; that the plans, estimates and quantities of materials for the bridge superstructure, will not be adopted until after the 18th of November next.

QUANTITIES FOR SECTIONS,

Exhibited at letting November 18, 1851, for the first Sub-division of the Eastern division.

ITEMS.	Section No. 13.	Section No. 14.	Section No. 15.	Section No. 16.	Section No. 17.	Section No. 18.	Section No. 19.
Cubic yards rock excavation,.....	574	.....	3,020	28,410	.....	.....	.....
earth excavation,.....	2,226	14,014	42,816	25,960	18,000	28,270	10,100
embankment,.....	8,792	9,393	24,944	30,525	57,740	8,700	3,520
lining,.....	2,818	1,307	5,384	5,500	3,150	4,180	1,376
puddling,	500	690	1,500	1,250	2,500	650	450
slope wall and pavement,.....	520	1,568	3,906	2,820	3,475	4,844	1,546
vertical wall,	110	.....	.....	.....	293	820	.....
loose stone, .....	.....	.....	.....	.....	.....	.....	.....
Feet B. M. hemlock,.....	10,000	21,400	64,000	53,000	85,000	120,000	30,000
oak,.....	.....	.....	.....	.....	.....	8,000	.....
Rods road,.....	40	.....	.....	.....	.....	90	.....

ITEMS.	Section No. 30.	Section No. 31.	Section No. 32.	Section No. 33.	Section No. 34.	Section No. 35.	Section No. 36.
Cubic yards rock excavation,.....	.....	.....	.....	16,600	.....	.....	.....
earth excavation,.....	23,560	22,450	48,250	36,130	7,440	45,270	18,500
embankment,.....	64,770	58,890	6,800	20,900	8,110	17,540	35,537
lining,.....	6,830	6,100	6,820	5,890	1,470	5,010	2,956
puddling,.....	750	1,360	1,600	500	350	750	1,500
slope wall and pavement,.....	8,538	6,064	6,475	5,520	1,300	4,740	2,609
vertical wall,.....	.....	.....	78	.....	.....	300	.....
loose stone,.....	.....	751	.....	.....	.....	.....	.....
Feet B. M. hemlock,.....	115,000	115,000	115,000	98,000	20,000	92,000	49,600
oak,.....	.....	.....	.....	.....	.....	.....	.....
Rods road,.....	224	88	256	140	50	40	.....

QUANTITIES—(CONTINUED.)

	Section No. 40.	Sections Nos. 41, 42, 44 and 45.	Sections Nos. 51, 52, 53, 54, 55, and 56.	Section No. 57.	Section No. 58.	Section No. 59.
Cubic yards rock excavation,.....	.....	795	.....	7,770	17,583	.....
earth excavation,.....	37,770	32,910	16,700	32,854	38,167	40,687
embankment,.....	37,870	28,950	43,000	51,790	47,407	67,250
lining,.....	4,483	12,230	20,570	5,220	8,640	8,487
puddling,.....	750	1,650	.....	750	500	500
slope wall and pavement,.....	3,988	6,911	9,890	4,515	9,290	8,000
vertical wall,.....	.....	580	.....	.....	.....	.....
loose stone,.....	.....	.....	.....	.....	7,120	.....
Feet B. M. hemlock,.....	70,920	90,000	.....	76,000	137,900	137,400
oak,.....	.....	15,000	.....	.....	.....	.....
Roads road,.....	.....	.....	40	176	.....	.....

ITEMS.	Section No. 60.	Section No. 61.	Section No. 62.	Section No. 75.	Section No. 78.	Section No. 83.	Section No. 84.
Cutlo yards rock excavation.....	7,858	.....	.....	2,925	376	.....	750
.....	47,840	35,665	26,674	42,733	45,439	24,786	3,210
.....	81,487	48,210	135,673	18,297	17,000	13,470	1,050
lining,.....	8,498	6,624	7,694	6,582	7,639	5,969	340
puddling,.....	2,000	1,500	12,000	500	1,800	200	.....
slope wall and pavement,.....	9,324	6,461	10,040	6,100	7,699	6,293	.....
vertical wall,.....	.....	.....	.....	.....	.....	.....	530
loose stone,.....	6,784	2,916	21,962	.....	2,794	533	.....
Feet B. M. hemlock,.....	137,380	93,160	80,520	105,700	111,640	68,360	13,000
oak,.....	.....	.....	.....	.....	.....	.....	8,000
Rods road,.....	116	292	388	.....	112	.....	.....

NOTICE TO PROPOSERS.

The right to substitute a docking of timber and plank, to be constructed in all respects according to the plan exhibited, in place of the whole or any part of the slope and vertical walls contained in the above estimates of quantities is hereby reserved.

Sections Nos. 80 and 31 will be constructed with 60 feet water surface, and with the docking on both sides. This will diminish the quantity of embankment as given in the above estimates for those sections.

QUANTITIES FOR MECHANICAL STRUCTURES,

Exhibited for letting, November 18th, 1851, for first sub-division of Eastern division.

ITEMS.	Locks.					
	No. 2.	No. 24.	No. 32.	No. 34.	No. 38.	No. 39.
Cubic yds. earth excavation,	860	1,100	1,800	1,800	800	790
old lock excavation,	950	870	950	1,000	950	1,060
rock excavation, with blasting,	950	250	....	....	1,000	1,160
embankment,	1,000	900	900	900	1,000	1,100
lining,	1,260	1,300	1,300	1,300	1,200	1,500
puddling earth,	230	260	240	300	250	310
loose stone,	620	620	620	620	620	650
masonry in lock walls, abutments and wings,	1,750	1,620	1,620	1,620	1,760	1,875
do culvert, well and arches,	214	209	209	209	67	219
concrete masonry,	90	90	....	90	90	90
Feet b. m. white oak timber,	21,800	20,850	20,850	20,850	21,800	23,000
white pine timber,	17,800	17,870	17,870	17,870	17,800	18,200
hemlock or spruce,	111,200	111,140	111,140	111,140	111,200	112,500
Lineal feet bearing piles driven, . . . . .	....	....	14,460	....	....	....
Pounds wrought iron,	3,710	3,500	3,710	3,710	3,900	3,920
cast iron,	350	350	350	350	350	350
spike and nails,	4,375	4,375	4,375	4,375	4,400	4,400
lead,	500	500	500	500	500	500
Painting lock gates per lock,	1	1	1	1	1	1
Snubbing posts,	6	6	6	6	6	6

ITEMS.	AQUEDUCTS.				CULVERTS.	
	Primup's.	Outons.	Leaker's.	Phillips's.	Sec. No. 16.	Sec. No. 17.
Cubic yds. earth excavation,	1,323	11,000	6,082	2,030	700	1,150
embankment, .....	.....	.....	.....	1,420	200	998
lining,	529	529	529	360	150	50
puddling earth,	424	424	424	420	380	173
slope wall and pavement, .....	.....	.....	.....	240	.....	.....
vertical walls, dry, .....	.....	.....	.....	80	.....	.....
masonry in lock walls, abutments and wings, ..	1,078	1,078	945	143	66	44
do culvert, well and arches, .....	.....	.....	.....	135	43	.....
do coping, .....	.....	.....	.....	15	.....	.....
Feet b. m. white oak timber,	18,214	18,214	14,000	.....	1,704	160
white pine timber,	83,911	83,911	64,650	7,717	1,330	1,580
hemlock or spruce,	102,592	102,592	83,592	20,268	6,620	13,860
driven,	14,720	14,720	12,480	.....	840	.....
.....	581	581	468	.....	140	150
.....	2,491	2,491	2,050	.....	150	190
lead,	500	500	400	.....	.....	.....

Lineal f
Pounds

QUANTITIES—(CONTINUED.)

ITEMS.	CULVERTS.					
	Sec. No. 30.	Sec. No. 40.	Sec. No. 59.	Sec. No. 60.	Sec. No. 75.	Secs 33, 34, 35
Cubic yds. earth excavation,.....	1,200	2,440	1,200	1,200	2,000	1,530
rock excavation, without blasting,.....	.....	.....	.....	.....	.....	50
embankment,.....	960	1,800	840	840	960	1,900
lining,.....	150	250	100	100	150	725
puddling earth,.....	130	280	150	150	130	550
masonry in lock walls, abutments and wings,	110	208	98	98	110	200
do culvert, well and arches,.....	64	117	53	53	64	110
masonry in coping,.....	.....	.....	.....	.....	.....	20
concrete masonry,.....	38	59	26	26	33	100
Feet b. m. white oak timber,.....	.....	.....	.....	.....	.....	100
white pine timber,.....	2,200	3,550	1,350	1,550	2,200	3,000
hemlock or spruce,.....	11,000	19,500	8,500	8,500	11,000	9,000
Lineal feet bearing piles driven,.....	1,464	2,664	1,200	1,200	1,464	.....
Pounds wrought iron,.....	.....	.....	.....	.....	.....	325
spike and nails,.....	1,000	1,650	650	650	1,000	.....

ITEMS.	BRIDGE ABUTMENTS.		WASTE WEIRS.	
	Road.	Farm.	Section 30.	Section 56.
Cubic yds. earth excavation,.....	1,800	6,900	1,460	1,460
embankment,.....	500	2,800	1,090	1,090
lining,.....	300	1,150	180	180
puddling earth,.....	180	690	160	160
loose stone,.....	300	1,150	.....	.....
masonry in lock walls, abutments and wings, do culvert, well and arches,.....	2,350	7,728	357	357
Feet b. m. white oak timber,.....	.....	.....	14½	14½
white pine timber,.....	.....	.....	2,200	2,200
hemlock or spruce,.....	.....	.....	2,240	2,240
Lineal feet bearing piles driven,.....	79,000	261,740	20,000	20,000
Pounds wrought iron,.....	.....	.....	3,580	3,580
cast iron,.....	.....	.....	1,370	1,370
Square yards painting,.....	.....	.....	2,030	2,030
			34	34

QUANTITIES

For superstructure of bridges, exhibited for letting Nov. 18th, 1851, for the first Sub-division of the Eastern Division.

ITEMS.	IRON SUPERSTRUCTURE.										Wooden superstructure.	
	BEACH'S PLAN.					WHIPPLE'S PLAN.					One road.	One team.
	ROAD.					ROAD.						
	2 Roadways and sidewalks.	1 Roadway and sidewalks.	Single track.	Farm.		2 Roadways and sidewalks.	1 Roadway and sidewalks.	Farm.				
Pounds wrought iron,	16,857	12,236	7,802	3,900		14,600	8,300	4,700		2,271	1,174	
Pounds cast iron,	11,235	7,852	6,753	4,338		15,300	9,200	9,000		.....	850
Feet, B. M., hemlock,	9,502	8,858	6,386	3,296		5,000	3,600	4,800		7,088		
Feet, B. M., oak, . . . . .	.....	.....	.....	.....		2,000	1,440	.....		1,296	3,411
Feet, B. M., white pine, . . . . .	.....	.....	.....	.....		6,700	3,200	.....		9,407	2,568
Ft. B. M. yellow or south'n pine, . . . . .	.....	.....	.....	.....		.....	.....	.....		1,195	
Feet, B. M., spuce, . . . . .	.....	.....	.....	.....		.....	.....	.....		933	
Feet, B. M., red beech, . . . . .	.....	.....	.....	.....		.....	.....	.....		.....	1,750
Pine shingles, . . . . .	.....	.....	.....	.....		.....	.....	.....		22,000	
Pounds spike and nails, . . . . .	.....	.....	.....	.....		.....	.....	.....		.....	50
Square yards painting,	400	330	270	270		200	125	125		270	120	

RESOLUTION OF THE CANAL BOARD, Adopted October 17th, 1851.

Resolved, That received for both wood and iron bridges, upon each division of the Erie canal; and that proposers 1 bridges be requested to furnish plans and estimates therefor, to accompany their proposals; that the plans, estimates and quantities of materials for the bridge superstructure, will not be adopted until after the 18th of November next.

ENLARGEMENT OF THE ERIE CANAL—EASTERN DIVISION—WESTERN SUB-DIVISION.

QUANTITIES for mechanical work; letting at Albany, November 20th, 1851.

ITEMS.	Square stone culvert, on section No. 111.						Two composite culverts on sections No. 111 and 112.		Two composite culverts, 3 spaces, 2½x2, on sections No. 118 and 120.		Composite culvert, 2x2 on section No. 128.		Stone arch culvert, 4 feet chord on section 127.		Composite culvert 3x2 on section No. 128.		Stone arch culvert, 12 feet chord, on section No. 129.	
Cubic yards excavation of earth,.....	1,000	8,000	2,000	1,200	1,000	500	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
embankment,.....	50	.....	300	100	800	.....	800	.....	300	.....	100	.....	800	.....	150	.....	1,000	.....
puddling, including materials, ..	30	50	200	100	.....	.....	.....	.....	.....	.....	.....	.....	50	.....	100	.....	130	.....
masonry in arches,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55	.....	.....	.....	155	.....
do not in arches,.....	170	65	80	35	.....	.....	.....	.....	.....	.....	.....	.....	200	.....	26	.....	460	.....
Feet, B. M. white oak timber, plank & boards,	.....	400	500	100	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100	.....	300	.....
white pine do do	700	3,500	9,800	1,300	.....	.....	.....	.....	.....	.....	.....	.....	1,000	.....	1,800	.....	2,700	.....
hemlock do do	7,000	23,500	56,000	14,000	.....	.....	.....	.....	.....	.....	.....	.....	8,000	.....	15,500	.....	36,500	.....
Pounds wrought iron,.....	.....	400	540	140	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	140	.....	.....	.....
spike and nails,.....	200	500	540	100	.....	.....	.....	.....	.....	.....	.....	.....	200	.....	150	.....	500	.....

QUANTITIES—(Continued.)

ITEMS.	QUANTITIES—(Continued.)							ASSEMBLY	
	Stone arch culvert, 4 feet chord, on section No. 129.	Composite culvert, 2x2, on section No. 130.	Three composite culverts, 2x2 on sections No. 131 & 132.	Two composite culverts, 2½x2, on sections No. 133 and 134.	One waste weir on each of sections No. 127, & 134.	Dam across the Mohawk river at Rome.	Feeder, including bulk-head and bridges at Rome.		
Cubic yards excavation of earth,.....	800	1,200	2,900	2,000	1,000	9,000	3,500		
embankment,.....	500	100	400	300	500	1,500	500		
puddling, including materials,...	50	100	300	200	200	500	100		
lining,.....						200	300		
loose stone,						200	200		
slope wall,						400	150		
vertical wall,						50	30		
concrete,.....						70			
masonry in arches,	55					30			
do not in arches,.....	200	35	80	80	310	330	250		
Feet, B. M. white oak timber, plank & boards,		100	400	500	1,200	1,000			
white pine, do do	1,000	1,300	5,400	9,800	5,500		3,000		
red beech, do do							3,500		
hemlock, do do	8,000	14,000	47,000	56,000	32,000	120,000	30,000		
Lineal feet, bearing piles, delivered,.....						7,200			
Feet, B. M. bearing piles, driven,.....						7,200			
Pounds wrought iron,.....		140	420	540	600	3,100	1,050		
cast iron,.....					1,000		2,600		
chilled,					150		500		
spikes and nails,	200	100	450	540	500	500	400		

EASTERN DIVISION, WESTERN SUB-DIVISION.

Quantities for locks. Letting at Albany, Nov. 20th, 1851.

Items.	Lock No. 40, 8 feet lift.	Lock No. 41, 8 feet lift.	Lock No. 42, 8 feet lift.
Excavation of earth, cubic yards,	3,000	3,500	4,000
do old lock walls, do	1,000	1,000	1,000
Embankment, do	2,800	2,800	2,800
Lining, do	1,200	1,209	1,200
Puddling, do	1,000	1,000	1,000
Slope and pavement wall, do	200	100	200
Vertical wall in mortar, .. do	60	60	60
do dry, do	100	200	100
Masonry in lock walls, ... do	1,780	1,700	1,650
Concrete masonry, do	200	200	200
Loose stone, do	350	350	350
White oak timber & plank, ft. b. m.	16,000	16,000	16,000
White pine, do	15,000	15,000	15,000
Hemlock, do	70,000	70,000	70,000
Bearing piles, delivered, lineal ft.	12,000	12,000	12,000
Driving bearing piles, ... do	12,000	12,000	12,000
Wrought iron, except valves, lbs.	3,500	3,500	3,500
Cast iron, do do	330	330	330
Lead, do	500	500	500
Spikes and nails, do	500	500	500
Snubbing posts, No. 7, do	6	6	6

DANIEL C. JENNE,
Resident Engineer.

Engineer's Office, at Rome.

EASTERN DIVISION—WESTERN SUB-DIVISION.

Quantities for bridge abutments.

ITEMS.	7 bridges between Utica and Frankfort including completion of canal at old bridge	Plank road bridge on section No. 112.	Bridge at Yorkville.	Bridge at Whitesboro.	7 farm bridges from Orleans' to Stanwix.	Plank road bridge at Stanwix.	4 farm bridges from Rome to N. London.	2 road bridges, from Rome to N. London.	Road bridge at New London.	Farm bridge from New London to Higgins.	2 road bridges from New London to Higgins.	Stop gates.
Cut and fill, excavation of earth,.....	11,900	200	200	200	1,400	200	800	400	800	200	400	350
embankment,.....	13,900	400	500	400	2,500	400	1,400	700	300	350	700	100
lining,.....	720											
procuring and paddling,.....		40	40	40	200	40	120	60	50	30	60	100
Loose stone,.....	120	80	40	30	200	30	100	50	50	80	50	
slope wall,.....	790											
vertical wall, in mortar,.....												
do laid dry,.....	480											30
masonry,.....	1,010	240	270	240	1,050	240	600	300	320	150	300	
Feet. B. M. white pine timber and plank,.....	1,400	300	300	800	1,400	800	800	400	800	200	400	1,500
red beech,.....												400
hemlock,.....	29,000	5,000	6,000	5,000	28,000	5,000	16,000	8,000	7,000	4,000	8,000	16,500
spruce,.....												2,700
Lbs., spikes and nails,.....	700	100	150	100	700	100	400	200	150	160		200
wrought iron,.....												60
Rods, road,.....	260											

EASTERN DIVISION—WESTERN SUB-DIVISION.

Quantities for sections. Letting at Albany, Nov. 20, 1851.

ITEMS.	Section No. 112, 80 chains.	Section No. 117, 75 chains.	Section No. 118, 76 chains.	Section No. 119, 77 chains.	Section No. 120, 78 chains.	Section No. 121, 78 chains.	Section No. 122, 80 chains.	Section No. 125, 80 chains.
Cubic yds. excavation of earth,	43,000	42,000	35,000	51,000	55,000	56,000	40,000	65,000
do of rock,	100	300	100	100	50	100	50	.....
embankment,	27,000	35,000	30,000	6,000	6,000	4,000	6,000	22,000
lining,	4,700	5,100	5,600	6,000	5,500	5,500	4,000	16,000
puddling,	1,300	5,000	1,000	1,000	2,000	1,000	1,000	500
slope and pavement wall,	5,300	4,000	4,650	4,800	4,700	4,500	3,600	500
vertical wall, in mortar,	70	.....	.....	.....	.....	.....	50	.....
do dry,	150	100	50	100	100	100	200	.....
loose stone,	30	.....	100	.....	500	.....	.....	.....
Feet b. m. red beech timber, boards and plank, ...	500	.....	.....	.....	.....	.....	.....	111,000
hemlock timber, boards and plank,	13,500	2,000	1,000	2,000	2,000	2,000	3,000	565,000
Rods, constructing road,	100	.....	.....	.....	.....	.....	.....	.....
Pounds, spikes and nails,	200	100	50	100	100	100	150	11,000

QUANTITIES—(CONTINUED.)

ITEMS.	Section No. 126, 79 chains.	Section No. 127, 84 chains.	Section No. 128, 80 chains.	Section No. 129, 75 chains.	Section No. 130, 70 chains.	Section No. 131, 68 chains.	Section No. 132, 72 chains.	Section No. 133, 73 chains.	Section No. 134, 68 chains.
Cubic yds. excavation of earth,	73,000	38,000	48,000	28,000	86,000	61,000	60,000	64,000	45,000
do of rock,	100	.....	50	100	200	100	100	100	50
embankment,	17,000	75,000	34,500	78,000	29,000	6,000	18,000	20,000	16,000
lining,	9,200	5,800	6,100	5,400	5,300	5,100	5,500	5,000	5,500
puddling,	400	2,000	200	9,000	2,000	300	1,500	1,500	1,000
slope and pavement wall,	2,400	4,600	6,000	4,350	4,350	4,200	4,500	4,000	4,500
vertical wall, in mortar, .....	.....	.....	.....	.....	.....	.....	.....	.....	100
do dry,	50	.....	100	50	50	.....	150	100	50
loose stone,	50	200	50	500	100	50	100	100	100
Feet b. m. red beech timber, boards & plank	42,000	.....	.....	.....	.....	.....	.....	.....	.....
hemlock timber, boards & plank,	215,000	10,000	2,000	1,000	1,000	3,000	1,000	2,000	2,000
Rods, constructing road, .....	.....	.....	.....	25	.....	100	120	216	140
Pounds, spikes and nails,	4,200	500	100	50	50	100	50	100	150

Engineer's office at Rome.

DANIEL C. JENNE, Resident Engineer.

NOTICE TO PROPOSERS.

The right to substitute a docking of timber and plank, to be constructed in all respects according to the plan exhibited, in place of the whole or any part of the slope or vertical walls contained in the above estimates of quantities, is hereby reserved.

[ASSEMBLY

BLACK RIVER CANAL.

QUANTITIES FOR IMPROVEMENT OF BLACK RIVER.

ITEMS.	DAM AND PIER.									
	No. 1.	No. 2.	No. 3.	No. 4.	No. 5.	No. 6.	No. 7.	No. 8.	No. 9.	No. 10.
Chains. Dam,	3	3	3	4	4	3	4	4	3	6
do Pier,	46	54	19	43	26	40	19	33	18	31
Cubic yds. Excavation of earth under water,	12,600	12,700	3,700	19,200	10,300	10,100	4,500	10,500	3,700	13,800
do Excavation of rock under water, ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
do Loose stone, ..	2,070	2,410	930	1,990	1,270	1,820	980	1,570	890	1,570
Lineal ft. Bearing piles, delivered, ..	15,800	18,500	6,900	15,100	9,500	13,900	7,200	11,800	6,600	11,600
do Bearing piles in work,	15,800	18,500	6,900	15,100	9,500	13,900	7,200	11,800	6,600	11,600
Feet, b. m. Hemlock timber & plank,	129,000	151,000	57,000	123,000	77,000	113,000	58,000	96,000	54,000	94,000
do Red beech ties and plank, ..	19,100	22,300	8,300	18,100	11,300	16,700	8,500	14,100	7,900	13,800
Pounds. Spikes,	3,800	4,400	1,700	3,700	2,300	3,400	1,800	2,900	1,600	2,900

QUANTITIES.—(Continued.)

ITEMS.	DAM AND PIER.									Channel at other places 147 chains.	Total quantities.
	No. 11.	No. 12.	No. 13.	No. 14.	No. 15.	No. 16.	No. 17.	No. 18.			
Chains. Dam,.....	4	.....	3	8	4	5	.....	4	.....	.....	65
do Pier,.....	21	13	18	22	78	71	40	52	.....	.....	644
Cubic yds. Excavation of earth under water,.....	5,900	4,100	6,700	9,500	13,600	30,600	5,000	19,000	29,000	224,500	
do Excavation of rock under water,.....	.....	.....	.....	.....	.....	.....	.....	.....	400	400	
do Loose stone,..	1,060	550	890	1,270	3,470	3,220	1,690	2,370	.....	30,020	
Lineal ft. Bearing piles delivered, ..	7,800	4,300	6,600	9,000	26,600	24,500	13,200	18,000	.....	226,900	
do Bearing piles in work.....	7,800	4,300	6,600	9,000	26,600	24,500	13,200	18,000	.....	226,900	
Feet, b. m. Hemlock timber & plank,	64,000	35,000	54,000	73,000	218,000	200,000	108,000	147,000	.....	1851000	
do Red beech ties and plank,..	9,300	5,200	7,900	10,700	32,100	29,000	16,000	21,700	.....	272,600	
Pounds. Spikes,.....	2,000	1,000	1,600	2,300	5,400	5,900	3,100	4,400	.....	56,200	

QUANTITIES FOR SLICES TO LOCKS—Letting at Albany, Nov. 20, 1851.

ITEMS.	Locks.							
	No. 34.	No. 35.	No. 36.	No. 37.	No. 38.	Nos. 39 to 42.	Nos. 44 to 46.	No. 47.
Cubic y'ds, excavation of earth,	480,	100	280	870	930	1,500	560	850
do of rock with blasting,	50	.....	.....	60	.....	50	100	
do of rock without blasting,	10	.....	.....	10	.....	10	20	
do of old slope wall, .....	.....	.....	.....	20	20	20	.....	20
embankment,	150	150	170	150	150	600	450	150
lining,	20	20	20	20	20	100	60	20
pudling,	50	50	50	50	50	450	150	50
slope wall of field stone,	20	20	20	20	20	100	60	20
do of quarried stone,	50	50	50	50	50	250	150	50
rubble wall, in mortar, .....	.....	.....	.....	10	10	10	10	10
do dry, .....	.....	.....	.....	10	10	10	10	10
Feet b. m., white oak or elm pins,	30	30	30	30	30	150	90	30
red beech timber, plank and boards,	800	800	800	800	800	4,000	2,000	800
hemlock do do	8,000	8,000	8,000	8,000	8,000	30,000	16,000	8,000
Pounds, spikes and nails,	100	100	100	100	100	400	400	100

QUANTITIES for sluices to locks.—(CONTINUED.)

ITEMS.	LOCKS.									
	No. 48.	No. 49.	No. 50.	No. 51.	No. 52.	No. 53.	No. 54.	No. 55.		
Cubic yds, excavation of earth,.....	440	430	480	460	540	550	580	300		
do of rock with blasting,.....	.....	.....	.....	.....	.....	.....	.....	0		
do of rock without blasting,.....	.....	.....	.....	.....	.....	.....	.....	.....
do of old slope wall,.....	20	20	20	20	20	20	20	20		
embankment,.....	150	150	150	150	160	150	160	170		
lining,.....	20	20	20	20	20	20	20	20		
puddling,.....	50	50	50	50	50	50	50	50		
slope wall of field stone,.....	20	20	20	20	20	20	20	20		
do of quarried stone,.....	50	50	4,50	50	50	50	50	50		
rubble wall, in mortar,.....	10	10	10	10	10	10	10	10		
do dry,.....	10	10	10	10	10	10	10	10		
Feet b. m., white oak or elm pins,.....	30	30	30	30	30	30	30	30		
red beech timber, plank and boards,.....	800	800	800	800	800	800	800	800		
hemlock do do	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000		
Pounds, spikes and nails,.....	100	100	100	100	100	100	100	100		

ITEMS.	LOCKS.									
	No. 56.	No. 57.	Nos. 58 to 60.	No. 61.	No. 62.	No. 63.	No. 64.	No. 65.		
Cubic y'ds, excavation of earth,	430	500	1,100	230	250	250	210	240		
do of rock with blasting, .....	.....	.....	20	10	.....	.....	.....	.....
do of rock without blasting, .....	.....	.....	10	...	.....	.....	.....	.....
do of old slope wall,	20	20	.....	20	20	.....	.....	20		
embankment,	150	130	300	100	140	130	120	150		
lining,	20	20	60	20	20	20	20	20		
puddling,	50	50	150	50	50	50	30	50		
slope wall of field stone,	20	20	60	20	20	20	10	20		
do of quarried stone,	50	50	100	50	30	50	20	50		
rubble wall in mortar,	10	10	.....	.....	.....	10	.....	10		
do dry,	10	10	.....	.....	.....	10	.....	10		
Feet b. m., white oak or elm pins,	30	30	90	30	30	30	30	30		
red beech timber, plank and boards,	800	800	2,000	800	800	800	800	800		
hemlock,	8,000	8,000	20,000	8,000	8,000	8,000	5,000	8,000		
Pounds, spikes and nails,	100	100	400	100	100	100	100	100		

QUANTITIES for sluices to locks—(CONTINUED.)

ITEMS.	Locks.					Totals.
	No. 66.	No. 67.	No. 68.	No. 69.	No. 70.	
Cubic yd's, excavation of earth,.....	100	230	300	620	420	14,230
do of rock with blasting, .....	.....	.....	.....	.....	20	320
do of rock without blasting,.....	.....	.....	10	10	20	100
do of old slope wall, .....	.....	20	20	20	.....	400
embankment,	100	820	330	130	150	5,460
lining,	20	20	20	20	20	740
pudding,	20	50	50	50	20	1,970
slope wall of field stone,.....	10	20	20	20	10	710
do of quarried stone,	20	50	50	50	20	1,690
rubble wall, in mortar, .....	.....	10	10	10	.....	200
do dry,.....	.....	10	10	10	.....	200
Feet b. m., white oak or elm pins,	30	30	30	30	30	1,090
red beech timber, plank and boards,.....	800	800	800	800	800	28,800
hemlock do do	4,000	8,000	8,000	8,000	8,000	270,000
Pounds, spikes and nails,.....	100	100	100	100	100	3,800

NEW-YORK STATE CANALS.

MIDDLE DIVISION.

Comprising the Eastern and Western, or First and Second sub-divisions of the enlargement of the Erie canal, and the Oswego canal.

QUANTITIES,

PUBLICLY EXHIBITED FOR THE LETTING AT ALBANY, NOV. 18, 1851.

ENLARGEMENT OF THE ERIE CANAL.

Eastern subdivision of the middle division, extending from Oneida lake canal west to Bolivar.

STATEMENT, SHOWING THE QUANTITIES ESTIMATED IN THE CONSTRUCTION OF SECTIONS 135 TO 151, BOTH INCLUSIVE.

Quantities and No. of sections.

ITEMS.	135.	136.	137.	138.	139.	140.	141.	142.	143.	144.
Chains, length,	77,75	86,00	75,48	64,75	68,00	79,00	74,00	81,00	84,00	78,00
Cu. y'ds, excavation of earth,.....	60,600	82,000	70,500	48,300	42,000	11,600	46,900	97,400	86,600	49,100
do rock without blast'g, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
embankment,.....	10,000	9,900	3,300	6,500	27,000	8,000	19,000	6,000	8,100	7,000
lining,.....	5,400	5,900	5,100	4,600	4,800	3,100	5,200	15,500	11,900	5,500
puddling,	6,100	7,000	5,000	4,200	8,800	1,000	8,100	2,000	3,900	8,000
slope and pavement wall,.....	6,800	7,500	6,500	5,800	5,900	5,100	6,600	7,200	7,300	6,920
vertic'l or batter'd wall l'd dry,	150	210	350	.....	210	280	.....	.....	270	.....
B. measure, hemlock timber and plank,	1,700	2,500	4,200	.....	2,400	3,500	11,000	.....	3,200	.....
oak do do	750	1,040	1,800	.....	1,100	1,500	.....	.....	1,400	.....
Rods, constructing road,.....	130	90	100	350	230	.....	300	90	160	260
Cu. y'ds, Rubble wall, in mortar, .....	.....	.....	.....	.....	.....	.....	170	.....	.....	.....

QUANTITIES.—(CONTINUED.)

FROM NEW BOSTON TO SECTION 152.

ITEMS.	Quantities and No. of section.										North line.		South line.	
	145.	146.	147.	148.	149.	150.	151.	149.	150.	151.	150.	149.	150.	151.
Chains, length,.....	81,75	85,00	81,35	76,22	82,10	95,00	89,52	52,90	104,56	110,40	104,56	52,90	104,56	110,40
C. y. excavation of earth,.....	48,600	61,300	49,500	51,000	34,200	56,700	27,100	11,230	241,200	124,200	241,200	11,230	241,200	124,200
do rock without blasting,	.....	.....	.....	6,000	8,000	18,000	18,500	500	7,000	4,500	7,000	500	7,000	4,500
embankment,.....	14,300	20,800	20,000	13,400	42,300	28,000	50,500	61,800	4,000	30,000	4,000	61,800	4,000	30,000
lining,.....	5,500	5,900	5,600	5,300	5,000	5,400	5,400	3,700	5,880	6,650	5,880	3,700	5,880	6,650
puddling,.....	9,000	9,000	8,000	8,200	15,000	5,000	6,000	9,100	2,340	7,400	2,340	9,100	2,340	7,400
slope and pavement wall,....	6,200	6,900	7,300	6,600	6,100	6,400	6,300	4,690	9,280	9,780	9,280	4,690	9,280	9,780
vertic'l or batt'r'd wall l'd dry,	610	180	.....	180	270	.....	180	.....	180	180	180	.....	180	180
B. measure, hemlo'k timb'r & plank	6,600	2,100	.....	2,100	3,200	.....	2,100	.....	2,100	2,100	2,100	.....	2,100	2,100
oak, do	2,800	900	.....	900	1,400	.....	900	.....	900	900	900	.....	900	900
Rods, constructing road,.....	120	210	240	210	30	30	20	20	20	20	20	20	20	20
Cu. yards, Rubble wall, in mortar,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

EASTERN SUBDIVISION OF THE MIDDLE DIVISION.

Statement, showing the estimated quantities for stone box culverts, and for composite culverts, required on the above subdivision.

DESCRIPTION AND LOCATION OF STRUCTURE.

ITEMS.	Composite 1 space. Section 136. Station 33.	Composite 1 space. Section 136. Station 59.	Composite 1 space. Section 136. Station 11.	Composite 1 space. Section 136. Station 414.	Stone box 1 space. Section 136. Station 71.	Stone box 1 space. Section 137. Station 23.	Composite 2 spaces. Section 137. Station 79.	Composite 10 spaces. Section 141. Station 79.
13 Cubic yds. excavation of earth,	1,130	1,280	1,230	530	720	820	1,170	3,500
do solid rock,	10	10	10	10	10	10	10	10
do quarried rock,	10	10	10	10	10	10	10	10
puddling,	60	50	50	60	50	50	60	290
masonry in abutment, piers and wings, ..	90	95	95	90	115	115	110	330
do concrete,	8	8	8	8	.....	.....	14	100
B. measure, hemlock timber and plank,	16,900	16,480	16,480	16,900	9,820	9,320	25,200	135,500
pine do	7,400	7,170	7,170	7,400	730	730	10,400	37,000
oak do	180	180	180	180	100	100	320	860
Pounds, .....	.....	.....	.....	.....	.....	.....	.....	1,320
ills,	150	150	150	150	100	100	200	300

DESCRIPTION--(CONTINUED.)

ITEMS.	From New Boston to Section 153.							
	North line.				South line.			
	Stone box 1 space. Section 141. Reeder.	Composite 2 spaces. Section 144. Station 7.	Composite 1 space. Section 146. Station 12.	Composite 3 spaces. Section 147. Station 24.	Stone box 1 space. Section 150. Station 38.	Composite 1 space. Section 149. Station 44.	Composite 10 spaces. Section 150. Station 8.	Stone box 1 space. Section 151. Station 55.
Cubic yds, excavation of earth,	745	1,200	1,280	1,760	620	1,000	3,500	820
do solid rock, . . . . .	.....	10	10	10	10	10	10	10
do quarried rock, . . . . .	.....	20	10	10	50	10	10	10
puddling,	40	60	50	70	45	60	290	50
masonry in abutment, piers and wings, do concrete,	84	110	95	131	99	90	330	115
B. measure, hemlock timber and plank, . . . . .	.....	14	8	30	.....	8	100	.....
pine do	7,750	25,200	16,480	35,600	9,600	16,900	135,500	9,320
oak do	750	10,400	7,170	18,800	760	7,400	37,000	730
Pounds, wrought iron,	100	320	180	350	100	180	860	100
spikes and nails, . . . . .	.....	.....	.....	.....	.....	.....	1,220	.....
	100	200	150	200	100	150	300	100

EASTERN SUBDIVISION OF THE MIDDLE DIVISION.

STATEMENT showing the estimated Quantities required on the above subdivision, except for
stone box culverts, composite culverts, and for bridges.

DESCRIPTION AND LOCATION OF STRUCTURES.

ITEMS.	From N. Boston to sec. 152.									
	Arch culvert, 4 feet abrd. sec. 128. sta. 51.	Arch culvert, 12 feet abrd. sec. 129. sta. 20.	Arch culvert, 4 feet abrd. sec. 129. sta. 1.	Wade weir, sec. 141, sta. 72½.	Pen & Guard Piles, section 141, feed. sta. 37½.	Double arch culvert, 8 ft abrd, sec. 145, sta. 37½.	Aqueduct, 1 mi. Canals, sec. 149, sta.	Aqueduct at Chittamango.		
	North	South						North	South	
Cu. yds, excavation of earth,...	1,320	1,600	2,030	600	1,800	3,100	2,000	3,440	6,000	
solid rock,.....	10	10	10	10	10	10	800	10	10	
quarried rock,....	10	20	10	10	10	10	1,200	50	50	
embankment,.....							500	550	550	
puddling,	50	80	60	140	170	140	800	1,000	1,000	
masonry in abutm's, piers & wings,	135	543	134	313	130	339	1,643	1,660	1,660	
arches,.....	30	215	45	20		130				
concrete,.....				10						
B. measure, hemlock timber and plank,..	16,000	51,000	19,100	32,112	36,600	41,320	55,500	95,600	95,600	
pine, do ..	1,350	4,650	1,450	2,400	4,800	4,840	27,700	69,800	69,800	
oak, do ..	200	300	150	1,500	3,450	300	920	2,700	2,700	
Lineal feet, piles,								14,100	14,100	
Pounds, wrought iron,				600	600		300	600	600	
cast iron,				1,800	1,800		600	900	900	
spikes and nails,	100	200	150	200	200	150	100	200	200	

NEW-YORK STATE CANALS.

QUANTITIES for superstructure of bridges, exhibited for letting November 18th, 1851.

ITEMS.	IRON SUPERSTRUCTURE.						Wooden superstruc- ture.		
	BEACH'S PLAN.			WHIPPLE'S PLAN.					
	ROAD.			ROAD.					
	2 Roadways and 2 sidewalks.	1 Roadway and 2 sidewalks.	Single track.	Farm.	2 Roadways and 2 sidewalks.	1 Roadway and 2 sidewalks.		Farm.	
Pounds wrought iron,	16,857	12,236	7,802	3,900	14,600	8,300	4,700	2,271	1,174
Pounds cast iron,	11,235	7,852	6,753	4,338	15,300	9,200	9,000	.....	850
Feet, B. M., hemlock,	9,502	8,858	6,386	8,296	5,000	3,600	4,800	7,088	
Feet, B. M., oak, . . . . .	.....	.....	.....	.....	2,000	1,440	.....	1,296	3,411
Feet, B. M., white pine, . . . . .	.....	.....	.....	.....	6,700	3,200	.....	9,407	2,568
Feet, B. M., yellow or Southern pine, . . . . .	.....	.....	.....	.....	.....	.....	.....	1,195	
Feet, B. M., spruce, . . . . .	.....	.....	.....	.....	.....	.....	.....	933	
Feet, B. M., red beech, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	1,750
Pine shingles, . . . . .	.....	.....	.....	.....	.....	.....	.....	22,000	
Pounds spike and nails, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	50
Square yards painting,	400	330	270	270	200	125	125	270	120

228

RESOLUTION OF THE CANAL BOARD, Adopted October 17th, 1851.

Resolved, That proposals will be received for both wood and iron bridges, upon each division of the Erie canal, and that proposers for building iron bridges be requested to furnish plans and estimates therefor, to accompany their proposals; that the plans, estimates and quantities of materials for the bridge superstructure, will not be adopted until after the 18th of November next.

[ASSEMBLY

ENLARGEMENT OF THE ERIE CANAL.

Western subdivision of the middle division. Estimated quantities in arch and Composite culverts.

ITEMS.	Arch culvert 4 feet chord, sec. 189, station 22.	Composite culvert 1 space 8x4, sec. 189, sta. 74.	Arch culvert 4 feet chord, sec. 190, sta. 142½.	Arch culvert 4 feet chord, sec. 191, sta. 222.	Composite culvert, 1 space 2½x3½, station 175.	Composite cul- vert, 1 space 3x4, section 192, sta. 305.	Arch culvert 6 feet chord, section 197, station 682½.	Arch culvert, 4 ft. chord, sec- tion 201, sta- tion 997.	Arch culvert, 4 ft. chord, sec- tion 201, sta- tion 1029.	Composite cul- vert, 1 space, 3x3, sec. 204, station 178.	Composite cul- vert 1 space, 3x3, section 205, sta. 179.
Cubic yards excavation of earth,	650	900	650	650	700	1,200	700	950	950	955	1,514
do quarried rock, .....	.....	200	.....	.....	.....	400	.....	.....	.....	.....	.....
padding,	30	80	30	30	30	30	57	30	30	12	11
masonry in sputments and wings,	100	86	100	100	50	90	126	100	130	56	78
do arches, .....	.....	.....	40	40	.....	.....	51	40	40	.....	.....
do coping,	5	5	5	5	5	5	6	5	5	5	5
do concrete,	10	40	10	10	40	40	10	10	10	40	42
Feet b. m. hemlock timber and plank,	10,859	14,895	10,850	10,859	13,369	14,895	14,341	10,661	10,661	12,911	12,533
pine do do	2,340	10,175	2,340	2,340	9,753	10,175	2,776	2,349	2,349	9,144	9,676
oak do do	200	517	200	200	425	517	200	200	200	640	592
Pounds spikes and nails,	50	50	50	50	40	50	60	50	50	50	50

ERIE CANAL ENLARGEMENT.—MIDDLE DIVISION— WESTERN SUB-DIVISION.

ESTIMATED QUANTITIES IN SECTIONS.

Section No. 192.

53,600	Cubic yards earth excavation.
1,000	" quarried rock excavation.
100	" solid "
12,500	" embankment.
5,600	" lining.
6,100	" puddling.
6,900	" slope and pavement wall.
70	" masonry in receiver walls.
150	" vertical or battered wall laid dry.
100 feet,	B. M. white oak.
500	" white pine.
7,000	" hemlock.

Section No. 193.

59,200	cubic yards earth excavation.
5,600	" quarry rock excavation.
26,500	" embankments.
6,000	" lining.
3,800	" puddling.
4,500	" slope and pavement wall.
70	" masonry in receiver walls.
2,500	" vertical or battered wall laid dry.
18,000 feet	B. M. white oak.
500	" white pine.
7,000	" hemlock.
80 rods	road to construct.

N. B. The contractor to whom the above section may be awarded, will be required to receive at the places where now delivered, and put in the work, about 300 cubic yards of cobble stone delivered by former contractors, for which [he] will be charged at the rate of fifty-five cents per cubic yard.

Section No. 195.

117,000	cubic yards earth excavation.
1,000	" rock which may be excavated without blasting.
1,000	" embankment.
4,400	" lining.
200	" puddling.
5,400	" slope and pavement wall.

Section No. 197.

65,500	cubic yards earth excavation.
1,500	" rock which may be excavated without blasting.
27,500	" embankment.
3,200	" lining.
2,500	" puddling.
8,000	" slope and pavement wall.
1,400	" vertical or battered wall laid dry.
10,000	feet B. M. white oak.

Section No. 199.

86,670	cubic yards earth excavation.
1,000	" rock which may be excavated without blasting.
27,000	" embankment.
6,600	" lining.
7,160	" puddling.
8,300	slope and pavement wall.

Section No. 203.

9,000	cubic yards earth excavation.
321,500	" embankment.
4,000	" lining.
11,152	" puddling.
6,200	" slope and pavement wall.
360,000	feet B. M. hemlock plank for sheet piling.

Section No. 204.

57,762 cubic yards excavation.
 232,205 " embankment.
 5,410 " lining.
 15,226 " puddling.
 8,680 " slope and pavement wall.
 176 " vertical wall laid dry.
 230,496 feet B. M. hemlock plank for sheet pilings, &c.
 144 rods road to construct.

Section No. 205.

58,700 cubic yards excavation.
 4,600 " embankment.
 2,764 " lining.
 3,312 " puddling.
 4,412 " slope walls.
 97 " vertical wall laid dry.

Section No. 206.

55,948 cubic yards excavation.
 1,715 " embankment.
 3,492 " lining.
 2,788 " puddling.
 5,300 " slope and pavement wall.

NEW-YORK STATE CANALS.

WESTERN DIVISION.

**Comprising the Eastern and Western, or First and Second Sub-divisions of the
Enlargement of the Erie Canal and the Genesee Valley Canal.**

QUANTITIES,

PUBLICLY EXHIBITED FOR THE LETTING AT ALBANY, NOV. 18, 1851.

QUANTITIES.—(CONTINUED.)

SECTIONS.	Length of sections in chains.	CUBIC YARDS.										M. FEET B. M.			Rods.	Lbs.
		Earth excavation.	Excavation in re- moving docking and slope wall.	Excavating rock requiring blast- ing.	Excavating rock not requiring blasting.	Retaining.	Padding earth.	Slope and pave- ment walls.	Vertical or bat- tered walls laid in cement.	Vertical or batter- ed walls laid dry.	White oak timber, plank, &c.	White pine timber plank, &c.	Hemlock & spruce timber, plank, &c.			
242	70	39,700	300	.....	.....	.....	18,100	6,100	4,400	5,200	.....	.....	.....	.....	.....	.....
243	70	41,300	200	.....	.....	.....	19,700	4,600	4,400	4,000	.....	.....	.....	.....	.....	.....
246	26	18,600	400	.....	.....	.....	5,900	3,300	3,300	3,000	.....	.....	.....	.....	.....	.....
246	99	80,800	.....	.....	.....	.....	8,500	4,400	5,000	400	.....	.....	.....	589,700	.....	6,800
247	99	121,400	.....	.....	.....	.....	.....	4,400	1,600	400	.....	.....	.....	589,700	.....	6,800
249	67 09-100	115,400	.....	.....	.....	.....	.....	3,300	.....	300	.....	.....	.....	439,600	.....	6,000
249	67 09-100	156,500	.....	.....	.....	.....	.....	3,300	.....	300	.....	.....	.....	439,600	.....	6,000
256	80	218,900	.....	.....	.....	.....	.....	3,900	.....	400	.....	.....	.....	524,200	.....	6,100
257	80	216,000	.....	.....	.....	.....	.....	3,900	.....	400	.....	.....	.....	524,200	.....	6,100
252	83 61-100	164,700	.....	.....	.....	.....	.....	4,100	.....	400	.....	.....	.....	547,800	.....	6,400
253	80	64,800	.....	.....	.....	.....	1,900	3,900	.....	400	.....	.....	.....	524,200	.....	6,100
254	83	64,500	.....	.....	.....	.....	29,700	4,100	.....	400	.....	.....	.....	543,800	.....	6,300
255	99 82-100	.....	.....	.....	.....	.....	1,675,200	4,900	47,600	300	.....	.....	.....	654,000	.....	7,600
256	75 28-100	20,200	.....	.....	.....	.....	394,500	3,700	27,100	400	.....	.....	.....	498,200	.....	5,700
257	80 18-100	44,400	.....	.....	.....	.....	236,900	3,900	25,700	400	.....	.....	.....	526,800	.....	6,100
259	55 64-100	62,800	.....	.....	.....	.....	71,600	2,700	6,300	300	.....	.....	.....	364,500	.....	4,200
259	86 50-100	6,000	.....	.....	.....	.....	1,188,900	4,200	32,900	400	.....	.....	.....	566,700	.....	6,600
260	107	61,600	.....	11,700	.....	.....	51,000	6,300	16,900	8,600	.....	.....	169,300	.....	.....	.....
262	116 12-100	85,400	.....	27,000	.....	.....	300	3,600	500	8,400	.....	.....	87,400	.....	.....	600
265	80 7-100	95,500	.....	3,600	10,700	.....	25,400	3,600	6,600	300	.....	.....	.....	581,400	.....	6,000
267	80	40,900	.....	8,600	4,300	.....	56,700	3,600	10,300	300	.....	.....	.....	380,000	.....	4,500
268	81 19-100	52,100	.....	.....	.....	.....	15,800	2,800	7,600	200	.....	.....	.....	575,000	.....	4,900
270	80	26,800	.....	.....	.....	.....	8,700	3,500	7,800	300	.....	.....	.....	580,000	.....	6,000

*Note.—Sections from No. 246 to 260 inclusive, of the above, are on the Independent Line from Macedon to Brighton.

QUANTITIES—(CONTINUED.)

SECTIONS.	Length of sections in chains.	CUBIC YARDS.										M. FEET B. M.			Rods.	Lbs.
		Earth excavation.	Excavation in re-moving derrick and slope wall.	Excavating rock requiring blast-ing.	Excavating rock not requiring blasting.	Embankment.	Lining.	Pudding earth.	Slope and pave-ment walls.	Vertical or batter-ed wall laid in cement.	Vertical or batter-ed wall laid dry.	White oak timber plank, do.	White pine tim-ber, plank, do.	Hemlock & spruce timber, plank, do.		
310	39 50-100	35,400	.....	.....	.....	.....	1,200	.....	700	.....	.....	42,800	.....	245,100	.....	7,000
311	65	71,400	.....	.....	100	20,100	1,900	100	1,100	.....	.....	87,600	.....	423,800	.....	12,100
312	49 50-100	41,300	.....	.....	.....	6,000	1,500	.....	900	.....	.....	53,500	.....	306,400	.....	8,700
313	49 50-100	47,200	.....	.....	.....	.....	1,500	.....	900	.....	.....	53,500	.....	306,400	.....	8,700
314	49 50-100	44,300	.....	.....	.....	41,600	1,500	.....	900	.....	.....	53,500	.....	306,400	.....	8,700
315	33 19-100	28,500	.....	.....	.....	.....	1,000	.....	600	.....	.....	37,100	.....	212,300	.....	6,000

QUANTITIES FOR SECTIONS,

On the old line of canal, from Macedon to Brighton. Numbering of sections corresponds with numbers observed on Independent line.

246	179 32-100	107,000	.....	.....	.....	66,600	8,800	6,800	15,200	.....	.....	.....	.....	284,100	.....	.....
247	88 36-100	49,700	.....	.....	.....	14,100	4,300	3,800	7,500	.....	.....	.....	.....	140,000	.....	.....
248	163 63-100	101,500	.....	.....	.....	3,500	8,000	600	13,900	.....	.....	.....	.....	258,200	.....	.....
249	157 48-100	83,900	.....	.....	.....	23,000	7,700	4,100	13,400	.....	.....	.....	.....	249,900	.....	.....
250	126 68-100	77,200	.....	.....	.....	10,000	6,200	1,500	10,800	.....	.....	.....	.....	200,900	.....	.....
251	80 18-100	51,700	.....	.....	.....	117,000	3,900	8,700	6,800	.....	.....	.....	.....	127,200	.....	.....
252	78 80-100	46,400	.....	.....	.....	14,700	2,900	1,200	6,700	.....	.....	.....	.....	124,800	.....	.....
253	81 82-100	36,700	.....	.....	.....	16,400	4,000	1,000	7,900	.....	.....	.....	.....	129,600	.....	.....
254	81 45-100	38,000	.....	.....	.....	330,000	4,000	7,500	6,900	.....	.....	.....	.....	129,000	.....	132
255	114 32-100	106,700	.....	.....	.....	46,600	8,100	4,800	9,700	.....	.....	.....	.....	181,100	.....	.....
256	77	62,200	.....	.....	.....	800	3,800	900	6,600	.....	.....	.....	.....	122,000	.....	.....
257	77	49,500	.....	.....	.....	61,500	3,800	5,900	1,500	.....	.....	.....	.....	122,000	.....	.....
258	150 60-100	99,500	.....	.....	.....	22,700	7,700	9,000	13,300	.....	.....	.....	.....	247,900	.....	.....
259	77	64,500	.....	.....	.....	7,400	3,800	2,300	6,500	.....	.....	.....	.....	122,000	.....	.....
260	140	119,600	.....	.....	.....	7,500	6,900	3,300	11,900	.....	.....	.....	.....	221,800	.....	.....

QUANTITIES FOR CULVERTS.

Exhibited at letting, Nov. 18th, 1851, for the first sub-division of the western division.

LOCATION	Number of culvert on section	Kind of Culvert.	Span.	CUBIC YARDS.										M. FEET, B. M.				LIN'L FEET.	POUNDS.		
				Earth excavation.	Rock requiring blasting.	Rock not requiring blasting.	Embankment.	Lining.	Pudding earth.	Slope and pavement wall.	Masonry in arches.	Masonry—all other.	Concrete masonry.	Procuring and puddling gravel.	White oak timber, plank, &c.	White pine timber, plank, &c.	Hemlock and spruce timber, plank, &c.		Spikes and nails.	Lead.	Wrought iron.
Sec. 217	1	Composite,	3 ft.	3,040	...	...	1,250	3,000	3,000	...	...	140	26	450	1,500	50,400	28,250	...	300	...	...
218	1	Box,	3	1,650	...	...	300	1,000	1,000	...	...	133	...	150	100	8,000	11,550	...	100	...	...
219	1	Composite,	3	1,283	...	...	300	1,000	1,000	...	...	84	...	150	600	21,000	10,000	...	100	...	...
210	1	Arch,	6	3,400	...	...	600	1,225	1,500	...	...	188	...	250	200	3,153	19,114	...	175	...	...
210	2	"	6	2,425	...	...	226	1,580	1,184	...	58	169	...	250	200	3,361	20,042	...	175	...	...
211	1	Box,	3	800	200	600	300	1,000	1,000	...	...	138	...	150	100	3,000	11,560	...	100	...	...
211	1	Composite,	3	1,220	...	...	300	1,000	1,000	...	...	84	...	150	600	20,730	10,000	...	100	...	...
213	1	"	3	3,000	...	...	1,250	3,000	3,000	...	...	160	25	450	1,500	50,400	28,250	...	300	...	...
216	1	Arch,	8	3,220	...	...	350	2,500	2,000	...	96	185	25	300	100	4,600	22,000	...	200	...	...
214	1	Composite,	3	8,720	...	...	300	1,000	1,000	...	...	84	...	150	600	21,000	10,000	...	100	...	...
218	1	"	3	2,000	...	...	300	1,000	1,000	...	...	84	...	150	600	21,000	10,000	...	100	...	...
219	2	Arch,	8	1,172	...	...	300	1,800	1,500	...	112	152	...	250	100	5,100	22,000	...	200	...	...
228	1	Composite,	3	2,250	...	...	300	1,000	1,000	...	...	84	...	180	500	21,000	10,000	...	100	...	...
228	2	Arch,	4	2,010	...	400	350	1,500	1,250	...	33	117	...	200	100	4,000	17,500	...	100	...	...
229	1	Composite,	3	1,400	...	450	300	1,000	1,000	...	...	84	...	150	500	21,000	10,000	...	100	...	...
232	1	Arch,	6	2,720	...	...	350	2,500	2,000	...	96	185	...	300	100	4,600	22,000	...	200	...	...
234	1	"	6	2,500	...	...	300	1,500	1,184	...	83	160	...	250	100	6,200	21,500	...	200	...	...
235	1	"	6	2,500	...	...	300	1,500	1,184	...	83	160	...	250	100	6,200	21,500	...	200	...	...
239	1	"	8	8,040	...	...	300	1,800	1,500	...	139	261	...	250	100	9,000	29,500	...	200	...	...

746	Composite,	4	1,100	130	200	14	58	5,154	7,853	9,648	100	100	324
253	"	4	1,100	130	200	14	58	5,154	7,853	9,648	100	100	324
255	Irondequoit creek, ..	30	1,000	1,100	1,800	50	1,333	20,376	128,684	7,600	500	200	.....
255	Arch,	4	284	284	700	.....	120	14,500	42,000	5,000	300	.....	.....
259	Allan's creek, ..	16	1,200	5,000	1,600	20	590	.....	.....	.....	.....	.....	.....
260	Box,	3	176	.....	168	.....	.....	.....	5,572	5,672	.....	.....	.....
260	"	2	100	.....	140	.....	.....	.....	4,626	4,560	.....	.....	.....
262	"	8	862	377	153	.....	.....	.....	6,096	5,012	.....	.....	.....
266	"	3	3,600	2,000	275	28	132	.....	10,600	.....	200	100	200
268	Arch,	8	.....	.....	75	3	.....	.....	11,752	.....	200	.....	.....
267	Box,	3	1,220	500	250	25	89	.....	28,354	.....	300	50	160
270	Arch,	6	3,700	3,700	300	12	.....	.....	45,714	.....	800	100	200
271	Box,	3	5,800	2,000	300	75	.....	.....	11,358	.....	200	25	50
274	"	3	1,000	500	75	3	.....	.....	24,786	.....	200	50	200
275	Arch,	6	2,500	2,800	250	25	69	.....	23,504	.....	400	50	100
276	Box,	3	1,650	800	125	6	.....	.....	35,076	.....	600	75	150
277	"	3	2,505	1,200	187	7	.....	.....	23,288	.....	400	50	100
278	"	3	2,000	1,000	150	6	.....	.....	47,997	.....	700	200	400
279	Arch,	4	2,850	1,700	275	40	189	.....	11,252	.....	200	25	50
279	"	10	.....	.....	75	3	.....	.....	23,504	.....	400	50	.....
280	Box,	3	2,650	500	125	5	.....	.....	.....	.....	.....	.....	.....
281	"	3	2,650	800	125	5	.....	.....	.....	.....	.....	.....	.....
282	"	3	2,650	.....	150	8	53	.....	28,476	.....	.....	.....	150
282	Arch,	4	.....	1,000	150	15	162	.....	50,760	.....	600	90	160
287	"	4	3,800	1,500	225	15	42	.....	.....	.....	250	30	60
288	"	4	475	300	180	5	.....	.....	.....	16,100	600	200	400
290	"	10	5,300	2,000	150	100	560	.....	.....	76,000	250	30	60
291	"	4	450	300	180	5	42	.....	.....	16,100	250	100	200
292	"	6	830	300	200	10	76	.....	.....	17,000	300	100	200
293	"	4	700	300	180	5	43	.....	.....	16,200	250	30	60
296	"	4	.....	.....	300	50	123	.....	.....	44,900	700	200	400
296	"	10	1,826	1,000	300	40	81	.....	.....	32,000	400	100	200
298	"	10	1,280	600	200	40	84	.....	.....	21,600	300	100	200
300	"	6	1,000	500	200	10	.....	.....	.....	.....	400	40	100
302	Box,	2	1,000	400	200	10	.....	.....	.....	14,440	400	40	100
302	"	2	.....	.....	150	5	.....	.....	.....	7,220	200	20	50
304	"	2	500	200	150	5	.....	.....	.....	7,220	200	20	50
305	"	2	500	200	150	5	.....	.....	.....	7,220	200	20	50
307	"	2	500	200	150	5	.....	.....	.....	7,220	200	20	50
308	"	2	500	200	150	5	.....	.....	.....	7,220	200	20	50

QUANTITIES—(CONTINUED.)

Sec.	Number of culverts	Kind of culvert.	Span.	CUBIC YARDS.										M. FEET, B. M.				LIN'L FEET.	POUNDS.		
				Earth excavation.	Rock requiring blasting.	Rock not requiring blasting.	Embankment.	Lining.	Pudding earth.	Slope and pavement wall.	Masonry in arches.	Masonry—all other.	Concrete masonry.	Gravel.	White oak timber, plank, &c.	White pine timber, plank, &c.	Hemlock and spruce timber, plank, &c.		Spikes and Nails.	Lead.	Wrought Iron.
LCO																					
309	1	Box,.....	2 ft.	500	...	...	200	150	150	5	...	76	...	...	...	...	7,220	...	200	20	50
311	1	Otter creek,	2	2,000	...	...	700	150	150	50	82	671	...	...	...	...	40,341	...	400	200	400
311	1	Box,.....	2	500	...	...	200	150	150	5	...	76	...	...	...	...	7,220	...	200	20	50
312	1	"	2	500	...	...	200	150	150	5	...	76	...	...	...	...	7,220	...	200	20	50
313	1	"	2	500	...	...	200	150	150	5	...	76	...	...	...	...	7,220	...	200	20	50
314	1	"	3	700	...	...	300	200	200	5	...	103	...	...	...	...	9,630	...	250	30	50

CULVERTS ON OLD LINE, FROM MACEDON TO BRIGHTON.

248	1	Arch composite, ..	6	2,000	...	...	1,700	300	400	...	12	95	...	...	...	14,100	88,800	...	200	...	100
252	1	Arch,.....	6	700	...	...	700	250	100	...	85	223	...	...	...	12,000	11,400	...	200	...	100
253	1	"	4	4,400	...	...	4,400	250	150	...	95	195	...	...	...	16,600	12,000	...	200	...	60
253	1	"	4	2,400	...	...	2,400	250	150	...	80	170	...	...	...	11,100	10,800	...	150	...	50
254	1	"	30	60,000	...	...	60,000	2,000	1,000	...	1,440	1,759	...	...	...	56,000	96,000	34,100	1200	...	300
255	1	Box,.....	3	500	...	...	500	200	100	...	...	168	...	...	...	11,500	5,040	...	100	...	50
257	1	Arch,.....	6	700	...	...	700	250	100	...	85	223	...	...	...	12,000	11,400	...	200	...	100
258	1	"	7	700	...	...	700	250	100	...	85	223	...	...	...	12,000	11,400	...	200	...	100
258	1	Box,.....	3	500	...	...	500	200	100	...	...	168	...	...	...	11,500	5,040	...	100	...	50
259	2	"	3	1,000	...	...	1,000	400	200	...	...	336	...	...	...	23,000	10,080	...	200	...	100
259	1	Arch,.....	16	700	...	...	700	200	100	...	107	261	...	...	...	14,000	10,200	...	220	...	80
260	1	Box,.....	3	500	...	...	500	200	100	...	...	168	...	...	...	11,500	5,040	...	100	...	50

CULVERTS ON OLD LINE, THROUGH THE VILLAGE OF HOLLEY.

[illegible]

QUANTITIES FOR MECHANICAL STRUCTURES,

Exhibited for Letters November 1941 10K1 Saw Steel and Division on Western Division submitted from the end line of

QUANTITIES FOR ABUTMENTS,

Exhibited at letting, November 18th, 1851, for the first Sub-division of the Western Division, extending from the east line of Wayne county to west line of Barre, Orleans county.

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of bridge.	Span, feet.	CUBIC YARDS.						Feet B.M.	Pounds.	
				Earth excavation.	Embankment.	Puddling earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and putting gravel.		Hemlock and spruce.	Loose stone.	Spike and nails.
Section 207.....	1	Road,	80	550	500	40	10	182	15	3,900	15	60
208.....	1	do	80	530	500	40	10	182	15	3,900	15	60
209.....	1	do	80	600	500	40	10	182	15	3,900	15	60
210.....	1	Farm,	80	356	400	30	8	154	10	3,600	15	50
210.....	2	do	80	530	400	30	8	154	10	3,600	15	50
212.....	1	Road,	82	1,225	500	40	10	182	15	3,900	15	60
212.....	2	do	85	525	500	40	10	182	15	3,900	15	60
213.....	1	Farm,	80	330	400	30	8	154	10	3,600	15	50
213.....	2	do	80	530	400	30	8	154	10	3,600	15	50
214.....	1	do	80	225	400	30	8	154	10	3,600	15	50
215.....	1	do	80	530	400	30	8	154	10	3,600	15	50
216.....	1	Road,	80	560	500	40	10	182	15	3,900	15	60
216.....	2	do	80	565	500	40	10	182	15	3,900	15	60
216.....	3	do	80	455	500	40	10	182	15	3,900	15	60

QUANTITIES—(CONTINUED.)

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of bridge.	Span, feet.	CUBIC YARDS.						Feet B.M.	POUNDS.	
				Earth excavation.	Embankment.	Padding earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and padding gravel.		Loose stone.	Spikes and nails.
Section 242.....	1	Road,	80	963	500	40	10	182	15	3,900	15	60
242.....	2	Farm,	80	650	400	30	8	154	10	3,600	15	50
243.....	1	Road,	80	660	500	40	10	182	15	3,900	15	60
245.....	1	Road and change,	80	987	500	40	10	210	25	4,000	25	100
*246.....	1	Road,	80	160	200	...	...	182	...	3,666	...	...
*247.....	1	do	80	160	200	...	...	182	...	3,666	...	...
*249.....	1	do	80	160	200	...	...	182	...	3,666	...	...
*252.....	1	do	80	160	200	...	...	182	...	3,666	...	...
*252.....	2	Farm,	80	160	200	...	...	154	...	3,196	...	...
*253.....	1	Road,	80	160	200	...	...	182	...	3,166	...	...
*254.....	1	do	80	160	200	...	...	182	...	3,666	...	...
*256.....	1	Farm,	80	160	200	...	...	154	...	3,196	...	...
*256.....	2	Road,	80	160	200	...	...	182	...	3,666	...	...
*257.....	1	Farm,	80	160	200	...	...	154	...	3,196	...	...
*257.....	2	Road,	80	160	200	...	...	182	...	3,666	...	...
*257.....	3	Farm,	80	160	200	...	...	154	...	3,196	...	...

*258	1	Farm,	80	160	200	154	...	3,196	...	50
*258	2	Road,	80	160	200	182	...	3,666	...	50
*260	1	do	80	160	200	182	...	3,666	...	50
*260	2	Farm,	80	160	200	154	...	3,196	...	50
*260	3	Road,	80	160	200	182	...	3,666	...	50
262	1	do	80	160	200	182	...	3,666	...	50
262	2	do	120	250	450	402	...	3,396	...	50
+266	1	do	...	620	620	342	12	5,000	25	50
267	1	Farm,	...	320	300	176	8	3,600	10	50
268	1	Road,	...	500	500	206	10	3,900	15	50
270	1	Farm,	...	320	300	176	8	3,600	10	50
270	2	Road,	...	500	500	206	10	3,900	15	50
270	3	do	...	500	500	206	10	3,900	15	50
270	4	do	...	500	500	206	10	3,900	15	50
270	5	Farm,	...	320	300	176	8	3,600	10	50
271	1	do	...	320	300	176	8	3,600	10	50
272	1	Road,	...	500	500	206	10	3,900	15	50
272	1	do	...	500	500	206	10	3,900	15	50
273	1	do	...	500	500	206	10	3,900	15	50
274	1	do	...	500	500	206	10	3,900	15	50
275	1	Farm,	...	320	300	176	8	3,600	10	50
276	1	Road,	...	500	500	268	10	4,920	15	60
277	1	do	...	500	500	206	10	3,900	15	50
277	2	do	...	500	500	206	10	3,900	15	50
278	1	do	...	500	500	206	10	3,900	15	50
279	1	do	...	500	500	206	10	3,900	15	50

* Bridges from section 246 to 260, inclusive, are on Independent Line from Macedon to Brighton. † The span will vary from 80 to 100 feet from section 266 to 314.

QUANTITIES—(CONTINUED.)

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of work.	Span—feet.	CUBIC YARDS.						Feet B.M.	Pounds.	
				Earth excavation.	Embankment.	Pudding earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and puddling gravel.		Loose stone.	Spikes and nails.
Section 280.....	1	Road,.....	...	500	500	...	10	206	15	3,900	...	50
281.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
281.....	2	do.....	...	500	500	...	10	206	15	3,900	...	50
282.....	1	Farm,.....	...	320	300	...	8	176	10	3,600	...	50
286.....	.....	Road,.....	...	500	500	...	10	206	15	3,900	...	50
287.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
287.....	2	do.....	...	500	500	...	10	206	15	3,900	...	50
*289.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
*290.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
*291.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
292.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
293.....	1	Farm,.....	...	320	300	...	8	176	10	3,600	...	50
294.....	1	Road,.....	...	500	500	...	10	206	15	3,900	...	50
294.....	2	do.....	...	500	500	...	10	206	15	3,900	...	50
296.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
297.....	1	Farm,.....	...	320	300	...	8	176	10	3,600	...	50

298	1	do	320	300	8	176	10	3,600	50
300	1	Road,	500	500	10	206	15	3,900	50
300	2	do	500	500	10	206	15	3,900	50
302	1	do	500	500	10	206	15	3,900	50
303	1	do	500	500	10	206	15	3,900	50
304	1	do	500	500	10	206	15	3,900	50
305	1	do	500	500	10	206	15	3,900	50
308	1	Farm,	320	300	8	176	10	3,600	50
309	1	Road,	500	500	10	206	15	3,900	50
311	1	do	500	500	10	206	15	3,900	50
312	1	Farm,	320	300	8	176	10	3,600	50
313	1	Road,	500	500	10	206	15	3,900	50
313	2	Farm,	320	300	8	176	10	3,600	50
314		Extension,	800	800	10	346	15	7,800	100

BRIDGES ON OLD LINE AT HOLLEY.

289	1	Road,	500	500	10	206	15	3,900	50
290	1	do	500	500	10	206	15	3,900	50
291	1	do	500	500	10	206	15	3,900	50

* Bridges on sections Nos. 289, 290 and 291, inclusive, are on Independent Line across "Great Bend" at Holley.

QUANTITIES—(CONTINUED.)
BRIDGES ON OLD LINE, FROM MACEDON TO BRIGHTON.

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of bridge.	Span—feet.	CUBIC YARDS.						Feet B.M.	POUNDS.	
				Earth excavation.	Embankment.	Pudding earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and padding gravel.		Loose stone.	Spike and nails.
Section 246	1	Road,	80	500	500	...	10	182	15	3,900	...	50
247	1	do	80	500	500	...	10	182	15	3,900	...	50
249	1	do	80	500	500	...	10	182	15	3,900	...	50
249	2	do	80	500	500	...	10	182	15	3,900	...	50
250	1	do	80	500	500	...	10	182	15	3,900	...	50
250	2	do	80	500	500	...	10	182	15	3,900	...	50
251	1	do	80	500	500	...	10	182	15	3,900	...	50
252	1	do	80	500	500	...	10	182	15	3,900	...	50
253 .....	...	do	80	500	500	...	10	182	15	3,900	...	50
255	1	do	80	500	500	...	10	182	15	3,900	...	50
255	2	do	80	500	500	...	10	182	15	3,900	...	50
256	1	do	80	500	500	...	10	182	15	3,900	...	50
256	2	do	80	500	500	...	10	182	15	3,900	...	50
257	1	do	80	500	500	...	10	182	15	3,900	...	50
258	1	Farm,	80	320	300	...	10	182	15	3,900	...	50

258	2	Road,	80	500	500	10	182	15	3,900	50
258	3	do	80	500	500	10	182	15	3,900	50
259		do	80	500	500	10	182	15	3,900	50
260	1	do	80	500	500	10	182	15	3,900	50
260	2	do	80	500	500	10	182	15	3,900	50
260	3	do	80	500	500	10	182	15	3,900	50
260	4	do	80	500	500	10	182	15	3,900	50

NOTICE TO PROPOSERS.

The right is herewith reserved to increase or diminish the span or width of bridges, to add sidewalks, when necessary, to commute for or dispense with the same, whenever the interests of the State may be promoted thereby.

.....

.....

QUANTITIES FOR SUPERSTRUCTURE OF BRIDGES.

Pounds wrought iron,	3,282	3,328	3,282	2,375	11,659	7,698	7,814
Pounds cast iron,	536	536	536	536	9,871	9,048	8,360
Feet B. M. hemlock,	3,458	4,334	3,458	2,392	4,590	4,590	3,240
oak,	3,829	5,298	3,640	2,217	2,184	2,184	2,184
white pine,	10,067	7,300	6,862	6,469	6,912	2,160	1,728
yel'w or so'rn pine,							
spruce,							
red beech,							
Pine shingles,							
Pounds spikes and nails,	100	100	100	100			
Square yards painting,	858	140	136	130	200	150	150
Feet B. M. Paynizing,	7,495	9,263	6,660	4,020			

QUANTITIES—(CONTINUED.)

ITEMS.	IRON SUPERSTRUCTURE.					WOODEN SUPER- STRUCTURE.	
	BEACH'S PLAN.			WHIPPLE'S PLAN, No. 4.		No. 5.	
	ROAD.		FARM.	ROAD.		ONE ROAD.	ONE FARM.
	2 roadw's and 2 sidewalks.	1 roadw'y and 2 sidewalks.		2 roadw's and 2 sidewalks.	1 roadw'y and two sidewalks.		
Pounds wrought iron,	16,857	12,236	7,802	14,600	8,300	2,271	1,174
cast iron,	11,235	7,852	6,753	15,300	9,200	.....	850
Feet B. M. hemlock,	9,502	8,858	6,386	5,000	3,600	7,088	.....
oak, .....	.....	.....	.....	2,000	1,440	1,296	3,411
white pine, ....	.....	.....	.....	6,700	3,200	9,407	2,568
yellow or southern pine, .....	.....	.....	.....	.....	.....	1,195	.....
spruce, .....	.....	.....	.....	.....	.....	933	.....
red beech, .....	.....	.....	.....	.....	.....	.....	1,750
Pine shingles, .....	.....	.....	.....	.....	.....	22,000	.....
Pounds spikes and nails, .....	.....	.....	.....	.....	.....	.....	50
Square yards painting,	400	330	270	200	125	270	120
Feet B. M. Paynizing, .....	.....	.....	.....	.....	.....	.....	.....

RESOLUTION OF THE CANAL BOARD, ADOPTED OCT. 17th, 1861.

Resolved, That proposals will be received for both wood and iron bridges, upon each division of the Erie Canal; and that proposers for building iron bridges be requested to furnish plans and estimates therefor, to accompany their proposals; that the plans, estimates, and quantities of materials for bridge superstructure, will not be adopted until after the 18th of November next.

QUANTITIES FOR MECHANICAL STRUCTURES,
Exhibited for letting November 18th, 1851, for Second Sub-division of the Western Division.

ITEMS.	SECTION 316.			SECTION 317.	SECTION 318.			SECTION 319.		SECTION 320.
	Bridge abutments.	Composite culvert.	Arch culvert 6 ft. chord.		Composite culvert.	Arch culvert 15 ft. chord.	Arch roadway.	Two composite culverts.	Two bridge abutments.	
Cubic yards earth excavation,	300	1,600	1,000	500	1,600	1,000	1,000	4,600	400	200
solid rock excavation, . . . . .	.....	.....	.....	.....	.....	800	1,400	.....	.....	.....
puddling,	50	300	500	300	300	500	1,000	800	100	50
masonry in arches, . . . . .	.....	.....	125	50	.....	240	300	.....	.....	.....
all other masonry,	340	125	200	80	125	200	1,000	290	600	800
loose stones, . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lbs. wrought iron including spikes & nails, . . . . .	.....	500	.....	.....	500	.....	.....	1,000	.....	.....
Feet b. m. white oak timber, . . . . .	.....	1,000	.....	.....	1,000	.....	.....	2,000	.....	.....
white pine timber, . . . . .	.....	24,000	.....	1,000	24,000	.....	.....	61,000	.....	.....
hemlock timber,	5,000	8,000	22,000	11,000	8,000	.....	.....	22,000	10,000	5,000

QUANTITIES—(CONTINUED.)

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of bridge.	Span, feet.	CUBIC YARDS.						Feet B.M.		Pounds.	
				Earth excavation.	Embankment.	Padding earth.	Slope and pavement wall.	Masonry in abutments and wings.	Protecting and padding gravel.			Loose stone.	Spikes and nails.
Section 242.....	1	Road,	80	963	500	40	10	182	15	3,900	15	60	
242.....	2	Farm,	80	650	400	30	8	154	10	3,600	15	50	
243.....	1	Road,	80	660	500	40	10	182	15	3,900	15	60	
245.....	1	Road and change,	80	987	500	40	10	210	25	4,000	25	100	
*246.....	1	Road,	80	160	200	...	...	182	...	3,666	...	...
*247.....	1	do	80	160	200	...	...	182	...	3,666	...	...
*249.....	1	do	80	160	200	...	...	182	...	3,666	...	...
*252.....	1	do	80	160	200	...	...	182	...	3,666	...	...
*252.....	2	Farm,	80	160	200	...	...	154	...	3,196	...	...
*253.....	1	Road,	80	160	200	...	...	182	...	3,166	...	...
*254.....	1	do	80	160	200	...	...	182	...	3,666	...	...
*256.....	1	Farm,	80	160	200	...	...	154	...	3,196	...	...
*256.....	2	Road,	80	160	200	...	...	182	...	3,666	...	...
*257.....	1	Farm,	80	160	200	...	...	154	...	3,196	...	...
*257.....	2	Road,	80	160	200	...	...	182	...	3,666	...	...
*257.....	3	Farm,	80	160	200	...	...	154	...	3,196	...	...

*258.....	1	Farm,	80	160	200	.....	.....	154	.....	3,196	.....	50
*258.....	2	Road,	80	160	200	.....	.....	182	.....	3,666	.....	50
*260.....	1	do	80	160	200	.....	.....	182	.....	3,666	.....	50
*260.....	2	Farm,	80	160	200	.....	.....	154	.....	3,196	.....	50
*260.....	3	Road,	80	160	200	.....	.....	182	.....	3,666	.....	50
262.....	1	do	80	160	200	.....	.....	182	.....	3,666	.....	50
262.....	2	do	120	250	450	.....	.....	402	.....	3,396	.....	50
+266.....	1	do .....	.....	620	620	.....	12	342	25	5,000	.....	50
267.....	1	Farm, .....	.....	320	300	.....	8	176	10	3,600	.....	50
268.....	1	Road, .....	.....	500	500	.....	10	206	15	3,900	.....	50
270.....	1	Farm, .....	.....	320	300	.....	8	176	10	3,600	.....	50
270.....	2	Road, .....	.....	500	500	.....	10	206	15	3,900	.....	50
270.....	3	do .....	.....	500	500	.....	10	206	15	3,900	.....	50
270.....	4	do .....	.....	500	500	.....	10	206	15	3,900	.....	50
270.....	5	Farm, .....	.....	320	300	.....	8	176	10	3,600	.....	50
271.....	1	do .....	.....	320	300	.....	8	176	10	3,600	.....	50
272.....	1	Road, .....	.....	500	500	.....	10	206	15	3,900	.....	50
272.....	1	do .....	.....	500	500	.....	10	206	15	3,900	.....	50
273.....	1	do .....	.....	500	500	.....	10	206	15	3,900	.....	50
274.....	1	do .....	.....	500	500	.....	10	206	15	3,900	.....	50
275.....	1	Farm, .....	.....	320	300	.....	8	176	10	3,600	.....	50
276.....	1	Road, .....	.....	500	500	.....	10	268	15	4,920	.....	60
277.....	1	do .....	.....	500	500	.....	10	206	15	3,900	.....	50
277.....	2	do .....	.....	500	500	.....	10	206	15	3,900	.....	50
278.....	1	do .....	.....	500	500	.....	10	206	15	3,900	.....	50
279.....	1	do .....	.....	500	500	.....	10	206	15	3,900	.....	50

• Bridges from section 246 to 260, inclusive, are on Independent Line from Macedon to Brighton. † The span will vary from 80 to 100 feet from section 266 to 274.

QUANTITIES—(CONTINUED.)

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of work.	Span—feet.	CUBIC YARDS.						Feet B.M.	POUNDS.	
				Earth excavation.	Embankment.	Pudding earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and puddling gravel.		Loose stone.	Spikes and nails.
Section 280.....	1	Road,.....	...	500	500	...	10	206	15	3,900	...	50
281.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
281.....	2	do.....	...	500	500	...	10	206	15	3,900	...	50
282.....	1	Farm,.....	...	320	300	...	8	176	10	3,600	...	50
286.....	...	Road,.....	...	500	500	...	10	206	15	3,900	...	50
287.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
287.....	2	do.....	...	500	500	...	10	206	15	3,900	...	50
*289.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
*290.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
*291.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
292.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
293.....	1	Farm,.....	...	320	300	...	8	176	10	3,600	...	50
294.....	1	Road,.....	...	500	500	...	10	206	15	3,900	...	50
294.....	2	do.....	...	500	500	...	10	206	15	3,900	...	50
296.....	1	do.....	...	500	500	...	10	206	15	3,900	...	50
297.....	1	Farm,.....	...	320	300	...	8	176	10	3,600	...	50

298	1	do	320	300	8	176	10	3,600	50
300	1	Road,	500	500	10	206	15	3,900	50
300	2	do	500	500	10	206	15	3,900	50
302	1	do	500	500	10	206	15	3,900	50
303	1	do	500	500	10	206	15	3,900	50
304	1	do	500	500	10	206	15	3,900	50
305	1	do	500	500	10	206	15	3,900	50
308	1	Farm,	320	300	8	176	10	3,600	50
309	1	Road,	500	500	10	206	15	3,900	50
311	1	do	500	500	10	206	15	3,900	50
312	1	Farm,	320	300	8	176	10	3,600	50
313	1	Road,	500	500	10	206	15	3,900	50
313	2	Farm,	320	300	8	176	10	3,600	50
314		Extension,	800	800	10	346	15	7,800	100

BRIDGES ON OLD LINE AT HOLLEY.

289	1	Road,	500	500	10	206	15	3,900	50
290	1	do	500	500	10	206	15	3,900	50
291	1	do	500	500	10	206	15	3,900	50

* Bridges on sections Nos. 289, 290 and 291, inclusive, are on Independent Line across "Great Bend" at Holley.

QUANTITIES—(CONTINUED.)
BRIDGES ON OLD LINE, FROM MACEDON TO BRIGHTON.

LOCATION.	Number of bridges on section, numbering from east to west.	Kind of bridge.	Span—feet.	CUBIC YARDS.						Feet B.M.	POUNDS.	
				Earth excavation.	Embankment.	Puddling earth.	Slope and pavement wall.	Masonry in abutments and wings.	Procuring and packing gravel.		Loose stone.	Spike and nails.
Section 246.....	1	Road,	80	500	500	...	10	182	15	3,900	..	50
247.....	1	do	80	500	500	...	10	182	15	3,900	..	50
249.....	1	do	80	500	500	...	10	182	15	3,900	..	50
249.....	2	do	80	500	500	...	10	182	15	3,900	..	50
250.....	1	do	80	500	500	...	10	182	15	3,900	..	50
250.....	2	do	80	500	500	...	10	182	15	3,900	..	50
251.....	1	do	80	500	500	...	10	182	15	3,900	..	50
252.....	1	do	80	500	500	...	10	182	15	3,900	..	50
253.....	...	do	80	500	500	...	10	182	15	3,900	..	50
255.....	1	do	80	500	500	...	10	182	15	3,900	..	50
255.....	2	do	80	500	500	...	10	182	15	3,900	..	50
256.....	1	do	80	500	500	...	10	182	15	3,900	..	50
256.....	2	do	80	500	500	...	10	182	15	3,900	..	50
257.....	1	do	80	500	500	...	10	182	15	3,900	..	50
258.....	1	Farm,	80	320	300	...	10	182	15	3,900	..	50

258	2	Road	80	500	500	10	182	15	3,900	50
258	3	do	80	500	500	10	182	15	3,900	50
259		do	80	500	500	10	182	15	3,900	50
260	1	do	80	500	500	10	182	15	3,900	50
260	2	do	80	500	500	10	182	15	3,900	50
260	3	do	80	500	500	10	182	15	3,900	50
260	4	do	80	500	500	10	182	15	3,900	50

NOTICE TO PROPOSERS.

The right is herewith reserved to increase or diminish the span or width of bridges, to add sidewalks, when necessary, to commute for or dispense with the same, whenever the interests of the State may be promoted thereby.

.....

.....

QUANTITIES FOR SUPERSTRUCTURE OF BRIDGES.

Exhibited for letting November 18th, 1851,

ITEMS.	WOODEN SUPERSTRUCTURE.				IRON SUPERSTRUCTURE.			
	STILLSON'S PLAN, NO. 1				MARSH'S PLAN, NO. 2.			
	ROAD.				ROAD.			
	Single track and two sidewalks.	Single track and extensions.	Single track.	FARM.	One Roadway and two sidewalks.	Single track.	FARM.	
Pounds wrought iron,	3,282	3,322	3,282	2,375	11,659	7,698	7,314	
Pounds cast iron,	536	536	536	536	9,871	9,048	8,360	
Feet B. M. hemlock,	3,458	4,334	3,458	2,392	4,590	4,590	3,240	
oak,	3,829	5,283	2,640	2,217	2,184	2,184	2,184	
white pine,	10,067	7,300	6,862	6,469	6,912	2,160	1,728	
yel'w or so'rn pine, . . . . .	.....	.....	.....	.....	.....	.....	.....
spruce, . . . . .	.....	.....	.....	.....	.....	.....	.....
red beech, . . . . .	.....	.....	.....	.....	.....	.....	.....
Pine shingles, . . . . .	.....	.....	.....	.....	.....	.....	.....
Pounds spikes and nails,	100	100	100	100	.....	.....	.....
Square yards painting,	858	140	136	130	200	150	150	
Feet R. M. Paynizing,	7,495	9,963	6,660	4,020	.....	.....	.....

QUANTITIES—(CONTINUED.)

ITEMS.	IRON SUPERSTRUCTURE.					WOODEN SUPER-STRUCTURE.	
	BEACH'S PLAN.			WHIPPLE'S PLAN, No. 4.		No. 5.	
	ROAD.		FARM.	ROAD.		FARM.	ONE ROAD.
	2 roadw's and 2 sidewalks.	1 roadw'y and 2 sidewalks.		2 roadw's and 2 sidewalks.	1 roadw'y and two sidewalks.		
Pounds wrought iron,	16,857	12,236	7,802	3,900	14,600	8,300	2,271
cast iron,	11,235	7,852	6,753	4,338	15,300	9,200	.....
Feet B. M. hemlock,	9,502	8,858	6,386	3,296	5,000	3,600	7,088
oak, .....	.....	.....	.....	.....	2,000	1,440	1,296
white pine, .....	.....	.....	.....	.....	6,700	3,200	9,407
yellow or southern pine, .....	.....	.....	.....	.....	.....	.....	1,195
spruce, .....	.....	.....	.....	.....	.....	.....	933
red beech, .....	.....	.....	.....	.....	.....	.....	.....
Pine shingles, .....	.....	.....	.....	.....	.....	.....	1,750
Pounds spikes and nails, .....	.....	.....	.....	.....	.....	.....	22,000
Square yards painting,	400	330	270	270	200	125	.....
Feet B. M. Paynizing, .....	.....	.....	.....	.....	.....	.....	270

RESOLUTION OF THE CANAL BOARD, ADOPTED OCT. 17th, 1851.

RESOLVED, That proposals will be received for both wood and iron bridges, upon each division of the Erie Canal; and that proposers for building iron bridges be requested to furnish plans and estimates therefor, to accompany their proposals; that the plans, estimates, and quantities of materials for bridge superstructure, will not be adopted until after the 15th of November next.

QUANTITIES FOR MECHANICAL STRUCTURES,
Exhibited for letting November 18th, 1851, for Second Sub-division of the Western Division.

ITEMS.	SECTION 316.			SECTION 317.		SECTION 318.			SECTION 319.		SECTION 320.	
	Bridge abutm'ts.	Composite culvert.	Arch cul-vert 6 ft. chord.	Arch cul-vert 4 ft. chord.	Composite culvert.	Arch cul-vert 15 ft. chord.	Arch roadway.	Two composite culverts.	Two bridge abutm'ts.	Bridge abutm'ts.		
Cubic yards earth excavation,	300	1,600	1,000	500	1,600	1,000	1,000	4,600	400	200		
solid rock excavation, .....	.....	.....	.....	.....	.....	800	1,400	.....	.....	.....
puddling,	50	300	500	300	300	500	1,000	800	100	50		
masonry in arches, .....	.....	.....	125	50	.....	240	300	.....	.....	.....
all other masonry,	340	125	200	80	125	200	1,000	290	600	300		
loose stones, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lbs. wro't iron inclu'g spikes & nails, .....	.....	500	.....	.....	500	.....	.....	1,000	.....	.....
Feet b. m. white oak timber, .....	.....	1,000	.....	.....	1,00	.....	.....	2,000	.....	.....
white pine timber, .....	.....	24,000	.....	1,000	24,000	.....	.....	61,000	.....	.....
hemlock timber,	5,000	8,000	22,000	11,000	8,000	.....	.....	22,000	10,000	5,000		

-(CONTINUED.)

	Section 322.		Section 323.		Section 324.	Section 326.		Section 327.
	Two bridge abutments.	Arch culvert six ft. abrd.	Bridge abutments.	Arch culvert 18 ft. abrd.		Two bridge abutments.	D'ble culvert 12 ft. chord, and vert 12 ft. mill culvert chord.	
Cubic yard	400	400	300	1,000	500	600	2,000	200
Feet	100	500	50	800	100	100	800	50
Lbs. wrought iron spikes and nails	600	125	340	240	640	780	250	300
Feet (b. m.) white oak timber								
Feet (b. m.) white pine timber								
Feet (b. m.)	0	22,000	6,000		11,000	13,000		5,000

QUANTITIES FOR MECHANICAL STRUCTURES—(CONTINUED.)

ITEMS.	SECTION 329.				SECTION 330.			SECTION 331.	
	Arch cul-verts 4 ft. chord.	Arch cul-verts 6 ft. chord.	Two bridge abutments.	Composite culvert.	Waste weir.	Two bridge abutments.	Arch cul-vert 18 ft. chord.	Arch cul-vert, 4 ft. chord.	Bridge abutment.
Cubic yards earth excavation,	500	400	500	1,600	500	400	1,000	500	300
solid rock excavation, .....	.....	.....	.....	.....	.....	.....	400	.....	.....
cubic yards of puddling,	300	500	100	300	300	100	500	300	50
masonry in arches,	50	125	.....	.....	.....	.....	280	50	.....
all other masonry,	80	200	640	125	75	600	220	80	340
loose stone, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lbs. wrought iron, including spikes and nails, .....	.....	.....	.....	500	500	.....	.....	.....	.....
Feet (b. m.) white oak timber, .....	.....	.....	.....	1,000	2,000	.....	.....	.....	.....
Feet (b. m.) white pine timber,	600	.....	.....	24,000	2,000	.....	.....	600	.....
Feet (b. m.) white pine timber,	11,000	22,000	11,000	8,000	20,000	10,000	.....	11,000	6,000

QUANTITIES—(CONTINUED.)

[illegible]

QUANTITIES (CONTINUED.)

	SECTION 336.		SECTION 337.	SECTION 346 to 353	SECTION 354 to 359	SECTION 360.			SECTION 361.
	Composite culverts	Two bridge abutments.				Waste weir.	Two composite culverts.	Bridge abutments.	
.....	1,600	600	.....	2,000	2,000	700	5,000	200	200
.....	300	100	.....	.....	.....	300	1,300	50	50
.....	125	680	50	500	100	100	350	300	300
.....	500	.....	.....	.....	.....	500	1,000	.....	.....
.....	1,000	.....	.....	5,000	5,000	2,000	1,000	.....	.....
.....	24,000	.....	.....	.....	.....	3,000	40,000	.....	.....
.....	.....	.....	.....	20,000	20,000	30,000	25,000	5,000	5,000
.....

QUANTITIES—(CONTINUED.)

ITEMS.	SECTION 363.		SECTION 364.		SECTION 365.		SECTION 367.		SECTION 368.		SECTION 369.		SECTION 370.	
	Bridge abutm'ts.	Composite culverts.	Bridge abutm'ts.	Bridge abutm'ts.	Bridge abutm'ts.	Bridge abutm'ts.	Composite culverts.	Bridge abutm'ts.	Bridge abutm'ts.	Bridge abutm'ts.	Bridge abutm'ts.	Bridge abutm'ts.	Bridge abutm'ts.	Guard look at Br'k Rock
1. Cable yards earth excavation,	200	2,000	200	260	200	200	4,000	300	300	300	300	200	20,000	
2. Embankment,	50	300	50	50	50	50	1,500	50	50	50	50	50	1,000	
3. masonry in arches,	300	125	300	300	300	300	420	300	340	340	300	300	1,500	
4. all other masonry,													500	
5. loose stone,														
6. Lbs. wrought iron, including spikes & nails,														
7. Feet (b. m.) white oak timber,														3,000
8. Feet (b. m.) white pine timber,														30,000
9. Feet (b. m.) hemlock timber,														50,000
10. Feet (b. m.) hemlock timber,	5,000	8,000	5,000	5,000	5,000	5,000	30,000	50,000	6,000	6,000	6,000	5,000	80,000	

2 each on sections 319, 322, 330, and 335. One each on sections 320, 324, 325, 370, and sections 7, 8, and 14, Mountain Ridge.

2 on section 336, and 1 each on sections 316, 321, 323, 324, 329, 331, 332,

with side-walks on section 326.

NOTICE TO PROPOSERS.—The State reserves the right to change the form or dimensions of any of the proposed structures, and also to dispense with the construction of any of the proposed bridges, for which they may commute.

QUANTITIES FOR SECTIONS.

Exhibited at Letting, November 18th, 1851, for the second sub-division of the western division.

ITEMS.	Section No. 316.	Section No. 317.	Section No. 318.	Section No. 319.	Section No. 320.	Section No. 322.	Section No. 323.	Section No. 324.
	Length 80 chs.	Length 70 chs.	Length 90 chs.	Length 80 chs.	Length 46 chs.	Length 114 chs.	Length 80 chs.	Length 80 chs.
Cubic yds. earth excavation,	74,000	76,000	115,000	142,000	40,000	130,000	65,000	88,000
solid rock excavation, .....	.....	.....	.....	.....	5,000	.....	1,000	.....
quarried rock excavation, .....	.....	.....	.....	.....	85,000	2,000	1,000	.....
embankment,	10,000	6,500	66,000	6,000	4,500	17,000	20,000	4,000
lining,	10,000	8,300	10,000	10,000	6,000	14,000	10,000	10,000
of puddling,	4,000	5,000	5,000	5,000	5,000	6,000	6,000	5,000
slope and pave't wall,	1,200	1,000	1,400	1,200	1,000	1,700	1,200	1,200
Feet (board measure) hemlock,	540,000	470,000	600,000	530,000	310,000	760,000	540,000	550,000
Pounds spikes and nails,	4,000	4,000	5,000	4,000	2,500	6,000	4,000	4,000
Rods constructing road, .....	.....	20	.....	20	60	.....	.....	.....

QUANTITIES—(CONTINUED.)

ITEMS	Section No. 334.	Section No. 335.	Section No. 336.	Section No. 337.	Section No. 348 to 353.	Section No. 354 to 359.	Section No. 360.	Section No. 361.
	Length 80 chs.	Length 80 chs.	Length 80 chs.	Length 80 chs.	Length 480 chs.	Length 440 chs.	Length 80 chs.	Length 80 chs.
Cubic y'ds earth excavation,	120,000	110,000	81,000	18,000	36,000	24,000	130,000	140,000
solid rock excavation,				1,000				
quarried rock excavation,								
embankment,	80,000	4,000	1,000		12,000	18,000		10,000
lining,	10,000	10,000	10,000		6,000	6,000	10,000	10,000
puddling,	5,000	5,000	5,000				5,000	5,000
slope and pavem't wall,	1,200	1,200	1,200		7,000	7,000	1,200	30,000
Feet (board measure) hemlock,	540,000	540,000	540,000		1,500,000	1,500,000	540,000	540,000
Pounds spikes and nails,	4,000	4,000	4,000		24,000	24,000	4,000	4,000
Rods constructing road,	160		20				170	320

QUANTITIES—(CONTINUED.)

ITEMS.	Section No. 362.	Section No. 363.	Section No. 364.	Section No. 365.	Section No. 366.	Section No. 367.	Section No. 368.	Section No. 369.	Section No. 370.
	Length 80 chs.	Length 80 chs.	Length 80 chs.	Length 80 chs.	Length 80 chs.	Length 75 chs.	Length 80 chs.	Length 80 chs.	Length 45 chs.
Cubic y'ds earth excavation,	130,000	130,000	110,000	110,000	110,000	96,000	60,000	100,000	40,000
solid rock excavation, .....	.....	.....	.....	.....	.....	.....	.....	.....	60,000
quarried rock excavation, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
embankment,	10,000	.....	.....	.....	10,000	10,000	.....	.....	.....
lining,	10,000	10,000	10,000	10,000	10,000	10,000	6,000	6,000	.....
puddling,	5,000	5,000	5,000	5,000	5,000	5,000	.....	.....	.....
slope and parem'nt wall,	25,000	1,200	1,200	1,200	40,000	8,000	600	600	.....
Feet (board measure) hemlock,	540,000	540,000	540,000	540,000	540,000	540,000	270,000	270,000	20,000
Pounds spikes and nails,	4,000	4,000	4,000	4,000	4,000	4,000	2,000	2,000	.....
Rods constructing road,	110	320	88	.....	.....	.....	.....	.....	.....

NOTICE TO PROPOSERS.

The above estimate of quantities is for 80 feet mean width of water on section 316, and increasing regularly to 91 feet mean width on section 337. The estimate through sections 348 to 367, inclusive, is for 100 feet width of water; and for sections 368 to 370, for 150 feet of water.

WESTERN DIVISION—GENESEE VALLEY CANAL.

QUANTITIES exhibited at letting, Nov. 18th, 1851.

ITEMS.	SECTIONS.				RESERVED.		
	No. 91, bridge, and 12 chains of Feeder.		No. 92, and 12 chains of Feeder.		Rockville, including bridges.	Oil creek, including bridges.	
	Sec. & Feeder.	Bridge.	Aggregate.				
Work, grubbing and clearing	1	.....	1	1	1	1	1
Acres,	.....	.....	.....	.....	.....	400	400
Work,	1	.....	1	1	1	1	1
Cubic,	30,000	.....	30,000	45,000	64,000	30,000	30,000
	19,500	2,500	22,000	33,000	8,000	140,000	140,000
	2,000	.....	2,000	5,000	5,000	20,000	20,000
lining,	460	.....	460	.....	.....	.....	.....
puddling earth,	450	.....	450	.....	500	.....	.....
brush and stone, .....	.....	.....	.....	.....	.....	1,550	1,550
loose stone, .....	.....	5	5	.....	.....	54	54
slope wall and pavement,	20	.....	20	20	.....	.....	.....
battered wall in mortar, .....	.....	.....	.....	.....	.....	.....	.....
do dry, .....	.....	64	64	.....	.....	.....	.....
masonry in locks except coping, .....	.....	.....	.....	.....	.....	.....	.....
do in coping, .....	.....	.....	.....	.....	.....	.....	.....
do culverts and well,	42	.....	42	.....	.....	.....	.....
concrete, .....	.....	.....	.....	.....	.....	283	283
M. feet, white oak,	12,000	5,300	17,300	.....	1,760	28,800	28,800
white pine,	31,800	6,200	38,000	10,000	1,700	30,900	30,900
hemlock, .....	.....	.....	.....	.....	5,700	2,700	2,700

QUANTITIES—(CONTINUED.)

ITEMS.	ISCHUA FEEDER.	LOCKS OF STONE.		AQUEDUCTS.	BRIDGES ON SECTION 107.		
					State street.	Union street.	Aggregates.
	24m x 31 cb'm.			Ischua.			
Work, grubbing and clearing,	1	1	1	1	.....	.....	.....
Acres, chopping and clearing, . . . . .	.....	.....	.....	.....	.....	.....	.....
Work, balling and draining,	1	1	1	1	.....	.....	.....
Cubic yards, earth excavation,	27,000	2,400	3,600	400	200	150	350
embankment,	64,000	3,000	6,000	700	.....	.....	.....
lining,	1,000	400	400	500	.....	.....	.....
puddling earth,	250	600	600	400	.....	.....	.....
brush and stone,	1,100	.....	750	80	.....	.....	.....
loose stone, . . . . .	.....	70	70	.....	9	6	15
slope wall and pavement,	600	217	217	120	.....	.....	.....
battered wall in mortar, . . . . .	.....	.....	.....	80	.....	.....	.....
do dry,	45	.....	.....	113	107	81	188
masonry in locks, except coping, . . . . .	.....	1,060	1,200	.....	.....	.....	.....
do do in coping, . . . . .	.....	60	60	.....	.....	.....	.....
do in culverts and well,	43	.....	.....	.....	.....	.....	.....
concrete, . . . . .	.....	.....	.....	.....	.....	.....	.....
M. feet	8,000	10,600	11,200	15,000	5,220	4,890	10,110
	27,000	25,000	114,300	75,000	8,440	6,020	14,460
	.....	30,600	.....	.....	.....	.....	.....

Pounds, wrought iron work,.....	570	2,040	2,150	3,600	465	435	890
cast do .....	.....	240	240	.....	.....	.....	.....
spike and nails,.....	200	1,200	1,000	1,100	110	80	190
lead,.....	.....	200	200	.....	.....	.....	.....
Chains, constructing new road, ..	6	.....	.....	.....	.....	.....	.....
Cub. yds. taking up and removing	.....	.....	182	.....	.....	.....	.....
Painting locks and bridges, .....	.....	1	1	.....	1	1	3

APPENDIX.

.....

11/25/91

.....

EASTERN DIVISION.

BIDS FOR WORK,

LET AT ALBANY, NOVEMBER 18TH, 1851.

EASTERN SUB-DIVISION OF THE EASTERN DIVISION.

Engineer's estimate,

\$15,745

\$4,757

NAMES OF GUARANTY.

NUMBER OF SECTION.

NAMES OF PROPOSER.

13.	14.	15.	16.	17.	18.	19.	
\$4,401	\$5,535	\$17,375	\$31,365	\$16,739	\$14,690	\$3,628	M. Western and A. J. Yates.
.....	.....	17,936	25,779	17,947	16,831	.....	A. Bell and S. Britton.
6,341	9,768	31,252	50,933	30,769	22,893	7,954	H. Chapman and W. H. Besch.
11,471	4,012	13,620	27,504	12,813	11,901	3,265	John Wilkinson.
4,845	6,329	25,358	42,714	18,370	16,048	5,604	J. and B. Stafford.
3,205	4,508	15,055	27,904	13,773	14,183	3,795	R. Elwood and A. Swart.
4,340	6,613	19,242	35,991	16,488	14,384	4,415	S. F. Johnson, ch. eng. of T. and B. B. Road.
.....	6,345	18,358	30,540	17,204	15,869	5,007	.....
3,675	5,728	19,118	32,601	16,897	16,842	5,493	W. W. Wright and P. V. Bartles.
4,602	6,431	19,459	32,991	19,782	18,663	6,168	J. Knickerbocker.
3,551	5,312	14,967	24,207	15,161	13,432	3,774	S. E. Ford.
.....	.....	.....	23,636	15,951	.....	.....	J. Sandford and D. Wright.
.....	.....	.....	25,408	17,478	17,295	.....	M. Barbydt and William Fuller.
.....	.....	20,900	.....	19,643	19,689	5,665	S. M. Payne and P. Barton.
.....	.....	.....	.....	.....	.....	.....	S. E. Ford.
.....	.....	.....	.....	.....	.....	5,709	O. L. Austin.
4,294	6,317	20,029	34,149	16,290	21,543	4,626	A. Richards and N. J. Besch.
4,152	5,650	18,287	35,534	18,068	15,669	4,844	S. Clark and A. Sumner.
4,888	6,081	20,889	36,131	18,500	16,358	8,683	E. H. Chapman and J. S. Besch.
7,362	11,309	34,658	53,449	33,832	28,856	4,846	A. W. Ostrander and W. J. Nelson.
4,984	6,396	17,778	40,421	13,806	17,876	4,288	P. D. Collins and Charles Duncan.
.....	4,417	14,939	31,575	14,773	14,920	.....	H. J. Campbell and Charles L. Austin.
.....	7,216	23,021	44,025	21,060	16,869	.....	.....
13,433	5,182	16,933	34,039	15,981	.....	.....	.....
4,369	6,653	20,223	36,166	19,278	16,726	5,153	J. Southard and S. Cole.
3,863	5,680	17,928	34,272	17,129	16,697	4,256	D. Denison and S. Hart.
.....	.....	20,151	39,169	.....	.....	.....	G. F. Tarbell and W. S. Barrows.
6,360	.....	26,317	34,145	15,670	16,548	.....	J. F. Green and T. Green.
.....	.....	16,813	26,355	17,839	15,409	4,918	D. S. Manners, W. Taylor and others.
5,103	6,465	24,613	45,592	23,647	20,597	6,028	M. S. Pitscher.
3,949	7,743	18,963	34,275	18,948	17,952	4,609	O. S. Grinnell and W. Storum.

920
 572
 26
 22
 685
 562
 728
 711
 485
 433
 59
 259
 54
 598
 716
 637
 566
 473
 473
 720

PROPOSALS—(CONTINUED.)

Engineers' estimate,	\$4,023	\$5,754	\$18,453	\$35,561	\$18,251	\$15,742	\$4,757
NAMES OF POSEDER							
218	Cherry, W. & Co.,		20,586	42,403			Powell, Ramothala & Co.
269	Croger, W. H. & Co.,			36,406			
21	Clement, L. M. & Co.,						P. Forrest.
56	Cole, E. & Co.,						and W. Clark.
127	Decker, N. H.,	4,176	5,908	33,807	16,735	15,110	4,376
149	Dunnell, L. & Co.,	5,596	7,297	42,159	21,776	16,932	5,518
23	Decker, J. H.,	3,596	5,084	16,824	33,312	16,329	4,470
260	De Graw, C. J. & Co.,	3,471	5,364	14,734	38,037	16,141	4,184
230	Elwood, A.,						Wm. F. Farnham and John McDonald, Jr.
188	Elwood, H.,						do.
208	Fennell, K. & Co.,	3,406	5,721	18,205	40,274		
208	Fisher, T. H. & Co.,	4,381	7,171	18,642	24,348	18,746	5,912
290	Fennell, J. & Co.,			23,276	42,209	22,031	J. L. Whittle.
319	Fleming, J.,				43,479	22,111	Russell Saxe and S. Norton.
502	Gray, J. J.,						
266	Healy, J.,	6,307	9,007	26,320	43,157	24,704	28,143
499	Hitchcock, T.,	4,702	6,101	14,646	26,715	13,726	17,367
269	Hague, A. & Co.,			16,278	39,818	14,124	14,176
306	Haight, S. E.,	3,779	4,912	16,530	30,249	10,678	12,197
498	Higgins, J.,	9,756	12,063	33,521	49,103	22,202	25,512
168	Holmes, N. W.,						
566	Holmes, H. & Co.,			21,173	37,688	19,842	
30	Hagman, C.,				36,608	17,297	13,925
293	Johnson, J. & Co.,				41,400	19,837	18,513
696	Loomis, H. & Co.,			23,807	30,141	16,697	21,742
294	Learned, E. & Co.,			19,630	44,704	17,666	16,838
370	Lery D. & Co.,			18,261	30,705	16,569	16,926
614	Landon, H. L. & Co.,	8,980	5,672	18,860	36,696		
289	Lynch, B. & Co.,			53,426	67,471	36,836	
555	Laddington, M. E. & Co.,						

NAMES OF GUARANTY.

Edmund.

McCue, J. J.,	546	.....	.....	14,865	28,022	18,924	15,739	4,092 D. D. Campbell and J. W. Schnyder.
McGuire, P.,	499	.....	4,278	16,160	31,090	14,341	14,268	4,148 F. S. Lamport and Thomas Sumner.
McGovern, T. & Co.,	341	7,067	9,926	28,371	.....	27,000	27,410	5,300 Gilles Bros. and Andrew Myers.
McGuade, P.,	780	4,034	7,220	23,270	56,097	20,806	.....	5,196 John McKnight and A. McCuade.
McDonald, J. Jr.,	187	.....	.....	.....	45,210	21,856	19,241	5,431 D. Wright and John B. Sturtevant.
McDonald, J.,	533	4,982	4,959	16,201	31,714	15,846	18,580	3,441 Thurlow Weed.
Milligan, T.,	690	4,224	6,359	.....	35,471	20,526	.....	Isaac F. Fletcher and J. Dixon.
Moss, J. B.,	789	.....	.....	14,928	.....	.....	.....	J. F. Russell.
Mills, Theo. G. & Co.,	163	.....	.....	17,810	35,071	17,214	17,272	H. Brinnall and H. Swain.
Morris, W. W.,	618	5,026	8,203	25,277	49,070	23,070	21,241	6,037 Edward James.
Marterson, P. & Co.,	697	7,049	9,104	25,402	44,234	23,400	20,646	6,175 J. Dougherty and Oliver Johnson.
Moore, R. L.,	63	4,073	5,924	17,740	34,446	13,928	15,682	4,747 G. J. Vincent and J. J. Grant.
Morell, W. H.,	228	.....	6,632	20,147	41,695	19,304	17,874	5,363 W. W. Morris and T. A. Emmett, Jr.
Morgan, P. & Co.,	371	3,322	5,312	17,466	20,466	17,015	14,512	4,103 Constant Cook.
Matthews, J. B. & Co.,	4	.....	4,351	16,570	55,540	17,671	17,194	W. A. Herrick and Thomas B. Simmers.
Marlett, J. W. & Co.,	118	.....	6,310	20,137	.....	.....	.....	J. B. Vandewater and L. McChesney.
McDonald, A. P.,	673	.....	5,870	.....	.....	.....	.....	Edward P. Cowles.
Matthews, C. & Co.,	119	.....	.....	.....	.....	.....	.....	A. Matthews and J. W. Feller.
McDonald, J. & Co.,	346	.....	.....	.....	.....	.....	.....	J. Stuart and John McClumpha.
McNemar, H. & Co.,	601	.....	.....	.....	.....	.....	.....	James Brady and James Natus.
McPharlin, P.,	541	.....	.....	.....	.....	.....	.....	P. Murphy.
McDonough, J.,	315	.....	.....	.....	.....	.....	.....	James W. Byrne and James Cashin.
Nichols, J. H.,	508 and 516	4,522	5,970	18,915	31,650	20,430	18,754	6,040 John F. Rathbone.
Northrup, H. B.,	543	4,690	7,294	23,430	45,170	22,130	21,680	6,230 L. H. Northrup and D. Doubleday.
Nuxon, J. and Co.,	649	4,715	5,741	18,565	34,112	18,201	16,280	4,470 C. Bouton and R. R. Kennedy.
Peirce, H.,	521	.....	.....	18,930	32,789	.....	.....	Thomas James and A. McSeerax.
Phelps, W. & Co.,	726	.....	.....	14,242	36,783	.....	.....	William Parmelee and L. Corning.
Quackenbush, H. & Co.,	713	.....	.....	.....	.....	.....	.....	S. P. Lyman.
Quackenbush, J.,	410	.....	.....	.....	.....	.....	.....	J. A. Sitter and Harvey Hughes.
Reilly, J. & Co.,	151	.....	.....	16,294	30,967	17,760	15,454	James Brady.
Rogers P. & Co.,	349	4,199	6,064	19,114	33,738	18,204	17,537	4,726 F. S. Lamport and N. S. Richards.
Richardson, P. & Co.,	295 and 297	3,632	5,125	15,508	33,570	14,470	13,619	3,954 T. N. Dillingham and George Strover.
Ransom, W. H.,	490	.....	.....	.....	.....	.....	.....	James B. Taylor.
Russell, S. P.,	470	.....	.....	.....	.....	.....	.....	H. C. Goodwin and M. McCuade.
Roof, J. J. & Co.,	265	.....	.....	.....	.....	.....	.....	M. L. Harris and J. S. Casler.
Rodgers, D.,	270	.....	.....	.....	.....	.....	.....	S. Voorhies and D. J. McMurtin.
Reid, J. B. & Co.,	7	.....	.....	.....	.....	.....	.....	W. G. Wait and S. G. Green.
Rose, J. B. & Co.,	73	.....	.....	.....	.....	.....	.....	John McKnight.
Storrs, H. E. & Co.,	342	.....	6,091	19,322	34,416	18,850	16,878	Ed. Elbridge and Sam. Weed.
Stewart, J.,	273	.....	6,927	18,621	30,928	20,134	16,604	3, Belding, Jr. and Alex. Sheldon.

PROPOSALS—(CONTINUED.)

Engineers' estimate		\$29,726	\$26,319	\$13,606	NAMES OF GUARANTY.												
NAMES OF PROPOSERS.		NUMBER OF SECTION.										No. of position.					
		30.	31.	32.	33.	34.	35.	36.									
		30.	31.	32.	33.	34.	35.	36.									
.....	.....	25,999	23,261	31,002	29,499	4,356	17,401	12,192	M. Western and A. J. Yates.							
.....	.....	31,098	29,035	19,380	29,958	4,701	19,250	13,300	A. Bell and S. Britton.							
.....	.....	40,640	38,030	30,700	40,865	7,487	26,723	21,579	H. Chapman and W. H. Beach.							
.....	.....	18,139	17,332	14,523	21,915	2,897	15,532	7,326	John Wilkinson.							
.....	.....	.....	.....	.....	.....	.....	.....	.....	J. and B. Stafford.					
.....	.....	.....	.....	.....	.....	.....	.....	.....	R. Elwood and A. Swart.					
.....	.....	27,603	25,441	22,372	32,232	5,658	20,126	.....	S. F. Johnson, ch. eng. of T. and B. R. Road.						
.....	.....	34,605	29,946	18,701	27,711	5,466	19,751	.....	.....						
.....	.....	25,067	23,527	21,378	30,717	7,779	19,854	13,201	W. W. Wright and P. V. Burton.							
.....	.....	25,163	24,015	21,503	32,181	5,235	18,841	14,842	J. Knickerbocker.							
.....	.....	27,195	25,459	19,797	.....	.....	.....	.....	S. E. Ford.					
.....	.....	.....	25,726	.....	26,859	.....	17,081	.....	J. Sandford and D. Wright.					
.....	.....	29,756	26,560	25,221	35,670	5,941	22,166	15,116	M. Barhydt and William Fuller.							
.....	.....	.....	.....	.....	29,178	19,835	14,786	15,930	S. M. Payne and P. Barton.					
.....	.....	26,517	22,885	25,653	33,383	6,881	20,372	11,160	S. E. Ford.							
.....	.....	.....	.....	.....	.....	.....	.....	.....	C. L. Austin.					
.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Richards and K. J. Beach.					
.....	.....	.....	.....	.....	.....	.....	.....	.....	S. Clark and A. Sumner.					
.....	.....	.....	.....	.....	.....	.....	.....	.....	E. H. Chapman and J. S. Beach.					
.....	.....	22,670	23,111	23,107	35,149	5,325	18,962	11,447	A. W. Ostrander and W. J. Nelson.							
.....	.....	20,812	20,084	18,748	29,563	4,225	15,414	10,669	P. D. Collins and Charles Duncan.							
.....	.....	32,348	.....	25,625	36,609	6,984	21,051	14,835	H. J. Campbell and Charles L. Austin.						
.....	.....	.....	.....	.....	.....	16,704	.....	.....	.....					
.....	.....	.....	.....	.....	.....	.....	.....	.....	J. Southard and S. Cole.					
.....	.....	24,121	22,595	19,392	30,071	4,508	18,106	12,493	D. Denison and S. Hart.							
.....	.....	32,392	29,982	24,565	40,471	6,483	24,515	16,916	G. T. Tarbell and W. S. Burrows.							
.....	.....	.....	.....	21,522	25,328	.....	.....	.....	J. F. Green and T. Green.					
.....	.....	.....	.....	.....	.....	.....	.....	.....	D. S. Manners, W. Taylor and others.					
.....	.....	20,476	28,762	24,512	38,886	5,961	22,945	10,516	M. S. Pitcher.							
.....	.....	27,619	24,175	24,575	37,699	6,490	19,969	16,499	O. B. Grinnell and W. Higgins.							

PROPOSALS—(CONTINUED.)

Engineers' estimates,.....	339,726	436,819	321,833	\$4,100	6,755	\$7,382	3,616	NAMES OF GUARANTY.	
NAMES OF PROPOSERS.	NUMBER OF SECTION.							NAMES OF GUARANTY.	
	No. of proposition.								35.	36.
Cherry, W. & Co.,.....	218	40,432	37,571	22,126	25,963	.....	21,310	14,143	Powell, Ramsdale & Co.,
Crager, W. H. & Co.,.....	309	.....	.....	.....	30,636	.....	19,099	13,314	Lewis Birdsell,
Clement, L. M. & Co.,.....	21	141,249	88,808	16,836	31,022	4,126	12,556	9,104	John Mariett and D. P. Forrest.
Cole, E. & Co.,.....	56	29,930	25,956	23,383	28,98.	5,251	22,167	14,835	Thos. R. Horton and W. Clark.
Decker, N. H.,.....	127	111,040	.....	.....	84,864	4,421	16,752	11,684	Hugh McClellan.
Dumnick, L. & Co.,.....	143	.....	.....	20,447	.....	.....	.....	.....	E. E. Smith and H. E. Storms.
Decker, J. H.,.....	23	.....	.....	.....	.....	.....	.....	.....	I, Jr.
De Gray, C. J. & Co.,.....	360	21,311	20,256	16,477	26,794	4,455	14,298	10,	
Elwood, A.,.....	320	23,755	24,583	19,184	22,388	.....	16,496	12,	
Elwood, H.,.....	183	24,022	20,773	18,061	34,135	.....	16,681	10,	
Fennar, A. & Co.,.....	206	21,724	20,701	18,364	.....	3,171	16,106	11,	
Fisher, T. H. & Co.,.....	606 & 609	28,761	24,916	25,786	36,815	7,765	16,276	20,	
Fennell, J. & Co.,.....	330	.....	.....	.....	.....	.....	.....	.....
Flanagan, J.,.....	519	.....	.....	.....	.....	.....	.....	.....
Gray, J. J.,.....	508	23,062	21,478	19,197	26,457	.....	16,928	11,	
Healy, J.,.....	365	37,209	22,232	34,681	31,021	4,824	16,985	10,	
Helmke, T.,.....	459	26,680	2,432	17,987	29,801	6,892	.....	.....
Hague, A. & Co.,.....	389	18,189	16,908	.....	26,443	3,731	18,076	10,	
Haight, S. R.,.....	308	23,809	23,036	17,349	27,168	4,144	16,080	.....
Higgins, J.,.....	408	.....	.....	.....	.....	.....	.....	.....
Harvey, N. W.,.....	105	.....	.....	16,176	23,879	.....	.....	10,	Nicholas Van De Bort and A. McKenna.
Holmes, H. & Co.,.....	565	.....	.....	.....	.....	.....	.....	.....	C
Hagman, C.,.....	10	.....	.....	.....	.....	.....	.....	.....
Jacobs, J. & Co.,.....	253	25,711	24,372	31,594	34,421	5,626	18,135	12,556	S
Loomis, H. & Co.,.....	606	.....	.....	.....	63,671	.....	33,527	15,839	E
Learned, E. & Co.,.....	506	.....	.....	.....	.....	.....	.....	.....	A
Lery, H. & Co.,.....	370	.....	.....	.....	.....	6,085	23,160	15,641	David Nelliger and James Cahlin.
London, H. L. & Co.,.....	614	.....	.....	.....	.....	.....	.....	.....	Miles White and Thomas McEnroe.
Lynch, D. & Co.,.....	320	47,137	33,661	.....	44,333	.....	.....	.....	Wanting.
Laddington, M. E. & Co.,.....	565	28,322	25,612	24,620	26,231	5,616	21,708	14,183	C. J. De Graw and John De Wolf.

McCao, J. J.,	546	28,618	21,361	17,762	34,711	8,747	16,866	9,610	D. D. Campbell and J. W. Eekryer.
McAndre, P.,	483	70,672	41,557	18,43	67,0	4,514	24,496	10,08	F. S. Lamport and Thomas Eanise.
McGovern, F. & Co.,	341	34,065	34,363	32,74	43,111	8,965	28,352	19,143	Giles Ross and Andrew Myers.
McQuale, P.,	730	21,975	.....	22,547	31,922	.....	20,622	15,784	Joan McKnight and A. McQuide.
McDonald, J. Jr.,	187	28,092	25,734	24,162	56,292	4,431	22,847	14,067	D. Wright and John B. Stuttsalt.
McDonald, J.,	593	25,935	23,857	21,526	27,211	4,911	18,654	12,802	Thurlof Weed.
Milligan, T.,	620	.....	.....	.....	.....	.....	.....	.....	Isaac F. Fletcher and J. Tison.
Moss, J. B.,	780	.....	.....	.....	.....	.....	.....	.....	J. F. Russell.
Mills, Theo. G. & Co.,	163	.....	.....	.....	30,804	.....	16,832	10,849	H. Brintnall and H. Swain.
Morris, W. W.,	618	32,029	29,768	24,954	39,610	6,352	24,737	16,669	Edward 'sacs.
Masterson, P. & Co.,	697	.....	.....	28,439	35,898	7,772	.....	.....	J. Fouglet and Oliver Johnson.
Moore, R. J.,	53	18,139	17,293	19,060	28,395	4,62	16,757	10,170	G. J. Vincent and J. J. Crut.
Morell, W. H.,	228	30,031	27,819	23,623	31,743	5,10	20,625	13,12	W. W. Morris and T. A. Eumett, Jr.
Morgan, P. & Co.,	571	21,402	20,236	17,422	19,902	4,14	16,010	11,512	Constart Cook.
Matthews, J. B. & Co.,	4	.....	.....	.....	.....	.....	.....	.....	W. A. Herrick and Thomas B. Simons.
Marlett, J. W. & Co.,	118	.....	.....	.....	.....	.....	.....	.....	J. B. Vandewerker and L. McCleary.
McDonald, A. P.,	673	.....	.....	.....	34,050	6,994	22,433	13,657	Edward P. Corlies.
Matthews, O. & Co.,	119	28,984	27,093	17,546	21,322	4,014	.....	.....	A. Matthews and J. W. Felier.
McDonald, J. & Co.,	346	.....	.....	17,385	26,781	4,352	17,995	.....	J. Stuart and John McClumpka.
McVernara, H. & Co.,	601	.....	.....	20,690	33,160	4,991	18,559	12,734	James Brady and James Maluo.
McPhartlin, P.,	541	.....	.....	.....	55,156	10,398	48,062	.....	P. Murphy.
McDonogh, J.,	316	.....	.....	.....	42,653	.....	.....	.....	James W. Byrne and James Castin.
Nichols J. H.,	508 and 516	25,323	24,579	22,679	34,023	6,994	22,358	13,667	John F. Rathbone.
Northrup, H. B.,	643	33,258	31,355	26,690	36,436	6,334	21,84	16,317	L. H. Northrup and D. Doubleday.
Noxon, J. & Co.,	649	33,564	31,411	26,522	.....	.....	.....	.....	C. Bouton and R. R. Kennedy.
Peirce, H.,	521	.....	.....	19,616	25,872	.....	.....	.....	Thomas James and A. Mcemanx.
Phelps, W. & Co.,	726	26,675	24,372	16,786	29,758	3,790	24,889	13,283	William Partridge and E. Caring.
Quackenboss, H. & Co.,	713	28,185	23,423	22,575	32,983	.....	20,833	.....	S. P. Lyman.
Quackenbush, J.,	410	24,724	22,025	18,220	35,354	.....	17,072	11,561	J. A. Sinter and Harvey Hughes.
Reilly, J. & Co.,	161	21,473	15,447	117,939	78,698	.....	.....	10,762	James Brady.
Rogers, V. & Co.,	349	.....	.....	.....	.....	.....	.....	.....	F. S. Lamport and N. S. Richards.
Richardson, P. & Co.,	296 and 297	25,710	24,437	19,677	23,166	5,463	17,640	12,066	T. N. Dillingham and George Strover.
Ransom, W. H.,	490	29,858	2,422	22,880	31,767	5,116	.....	13,667	James B. Taylor.
Russell, S. P.,	470	30,239	2,719	22,373	.....	6,653	18,382	13,103	H. C. Goodwin and M. McQuade.
Roof, J. J. & Co.,	265	.....	20,216	17,890	23,907	4,857	16,448	11,061	M. L. Harris and J. S. Casler.
Rodgers, D.,	270	25,662	22,309	14,631	25,755	4,252	15,340	10,290	S. Voorhies and D. J. McMartin.
Reil, J. B. & Co.,	7	28,069	23,125	21,437	.....	.....	.....	.....	W. G. Wait and S. G. Green.
Rose, J. R. & Co.,	78	.....	.....	.....	30,087	.....	.....	.....	John McKnight.
Storrs, H. E. & Co.,	342	29,151	27,438	24,169	28,583	5,499	21,508	14,562	Ed. Elbridge and Sam. Weed.
Stewart, J.,	273	26,655	23,804	20,479	28,254	.....	.....	.....	S. Belding, Jr. and Alexander Sheldon.

PROPOSALS—(CONTINUED)

Engineers' estimates.....		\$29,726	\$25,319	\$21,658	\$34,870	\$6,756	\$17,382	\$13,600	NAMES OF GUARANTY.	
NAMES OF PROPOSERS.		NUMBER OF SECTION.								
No. of proposition.		20.	31.	32.	33.	34.	35.	36.		
Stuart, J. & Co.,	39	.....	.....	.....	.....	.....	.....	.....	J. Cady and Andrew Treax.
Paul, M. & Co.,	662	.....	.....	.....	.....	.....	.....	.....	Robert Morrison and F. S. Lamport.
Sheppard, W.,	660	.....	.....	.....	.....	.....	.....	.....	A. J. Yates & William Neale.
Starnesburgh, B. & Co.,	331	.....	.....	.....	.....	.....	.....	.....	William and James Calligan.
Story, M. C.,	343	.....	.....	.....	.....	.....	.....	.....	Geo. Law and David Palmer.
Savage, J. & Co.,	813	.....	.....	.....	.....	.....	.....	.....	Thomas James.
Schumerborn, N. J.,	13	.....	.....	.....	.....	.....	.....	.....	C. Schumerborn and A. Kelly.
Stuart, A. & Co.,	406	.....	.....	.....	.....	.....	.....	.....	A. J. Yates and W. C. Wemple.
Smith, J. C.,	411	.....	.....	.....	.....	.....	.....	.....	Benj. France and S. Smith.
Sanders, J. & Co.,	338	.....	.....	.....	.....	.....	.....	.....	J. and A. Groenbeck.
Schuyler, N. N.,	350	.....	.....	.....	.....	.....	.....	.....	Abram Elwood.
Stuart, W. B.,	451	.....	.....	.....	.....	.....	.....	.....	Robert Smith and Jas. M.
Stuart, W. & Co.,	479	.....	.....	.....	.....	.....	.....	.....	D. J. McMurtin and Jno. Stewart.
Upton, J. & Co.,	17	.....	.....	.....	.....	.....	.....	.....	Peter D. McNab and Thos. Cowell.
Vrooman, J. N.,	350	.....	.....	.....	.....	.....	.....	.....	A. Van Vort and W. McCamus.
Van Der Karr, L. & Co.,	603	.....	.....	.....	.....	.....	.....	.....	Thos. Van Der Karr and Robert Powers.
Van Zile, J.,	36	.....	.....	.....	.....	.....	.....	.....	H. Marshall and John A. Griswold.
Van De Bogart, N. & Co.,	341 & 342	.....	.....	.....	.....	.....	.....	.....	M. Barbeydt and Wm. McCamus.
Van Voorst, J. B.,	12	.....	.....	.....	.....	.....	.....	.....	P. Potter and H. C. Van Voorst.
Vrooman, F. C.,	43	.....	.....	.....	.....	.....	.....	.....	John N. Vrooman and E. B. Dow.
Van Slyck, A. H.,	39	.....	.....	.....	.....	.....	.....	.....	A. A. Bradt and John Van Glyck.
Van Arram, A. H. & Co.,	496	.....	.....	.....	.....	.....	.....	.....	J. W. Miller and John Roosevelt.
Van Horne, C. T. E. & Co.,	431	.....	.....	.....	.....	.....	.....	.....	H. P. Alexander and H. Doolittle.
Vedder, H. C.,	446	.....	.....	.....	.....	.....	.....	.....	A. M. and S. Y. Vedder.
Van Glyck, H. & Co.,	79	.....	.....	.....	.....	.....	.....	.....	M. W. Harvett and A. Boyce.
Wormer, D. & Co.,	453	.....	.....	.....	.....	.....	.....	.....	P. C.
Wormer, D.,	463	.....	.....	.....	.....	.....	.....	.....	John D. Livingston.
Weed, S. & Co.,	636	.....	.....	.....	.....	.....	.....	.....	D. Livingston.
Woodruff, D. H. & Co.,	182	.....	.....	.....	.....	.....	.....	.....	W. B.
Williams, G. & Co.,	334	.....	.....	.....	.....	.....	.....	.....	C. L. Woodruff and W. H. De Witt.
Wilcox, C. & Co.,	588	.....	.....	.....	.....	.....	.....	.....	Horace Hunt and J. O. H. Rockfellow.
		.....	.....	.....	.....	.....	.....	.....	J. R. Wilcox and G. Benedict.

PROPOSALS—(CONTINUED.)

Engineers' estimate,		NUMBER OF SECTION.								NAMES OF GUARANTY.	
NAMES OF PROPONENTS.		No. of pro- position.	37.	40.	51 to 45.	51 to 56.	57.	58.	59.		
.....	338 & 339		\$16,288	\$9,715	\$23,219	\$28,019	.....	.....	.....	M. Western and A. J. Yates.	
.....	352		.....	.....	.....	.....	.....	.....	.....	W. J. Skinner and Homer Caswell.	
.....	339		.....	.....	.....	.....	.....	.....	.....	H. P. Van Dresser.	
.....	327		.....	.....	.....	.....	.....	.....	22,451	John Stafford and P. Whittimore.	
.....	553		16,782	.....	.....	.....	23,774	43,367	27,005	A. Bell and S. Britton.	
.....	142		30,114	18,176	.....	.....	.....	.....	.....	H. Chapman and W. H. Beach.	
.....	221		11,248	13,078	17,584	20,745	38,054	33,050	.....	of Eng'r T. and B. R. R.	
.....	111		.....	17,006	25,565	25,470	20,918	34,077	.....	
.....	491		.....	.....	.....	.....	21,866	38,848	.....	P. V. Burtiss.	
.....	536		.....	.....	.....	.....	20,047	35,857	.....	
.....	539		16,174	.....	34,461	35,273	23,864	44,352	.....	J. Sanford and D. Wright.	
.....	555		16,492	12,052	27,067	29,555	29,939	52,659	.....	
.....	572		.....	9,474	.....	.....	.....	36,071	.....	S. M. Payne and P. Barton.	
.....	23		21,846	13,992	29,911	29,429	.....	.....	.....	Wm. Fuller.	
.....	25		16,337	11,577	25,200	33,247	27,918	37,854	30,190	Jno. Morris.	
.....	535		17,314	10,774	26,125	26,273	16,249	35,735	25,035		David Yost.
.....	419		.....	.....	26,819	28,738	Imprim'1	40,053	24,973	Henry Card.	
.....	701		.....	.....	.....	.....	.....	33,639	.....	A. W. Ostrander and W. J. Nelson.	
.....	379		59,208	30,394		
.....	562		.....	.....	.....	.....	23,994	47,081	27,218	P. D. Collins and Chas. Duncan.	
.....	423		16,484	21,113	26,562	26,984	24,216	42,780	25,327	Henry J. Campbell and Charles L. Austin.	
.....	50		14,444	16,204	53,019	52,973	34,279		
.....	259		19,923	.....	.....	.....	28,385	52,973	.....	D. Dennison and S. Hart.	
.....	54		.....	.....	.....	.....	63,897	40,540	.....	H. S. Tarbell and W. S. Burrows.	
.....	716		17,798	11,272	24,497	24,725	20,206	39,495	24,674	J. F. Green and T. Green.	
.....	537		.....	.....	.....	.....	26,085	46,052	32,746	M. S. Fletcher.	
.....	566		16,415	.....	.....	.....	.....	56,676	.....	J. Powell, Ramsdale & Co.	
.....	471		22,988	14,007	22,652	28,331	33,837	61,078	27,419	Lewis Birdsell.	
.....	213		18,469	13,794	42,488	50,991	23,156	42,136	27,660		
.....	209		.....	.....	.....	.....	.....	.....	.....

PROPOSALS—(CONTINUED.)

Engineers' estimates,	\$26,929	\$10,524	\$24,67.	\$23,964	\$25,116	\$49,912	\$27,142	NAMES OF GUARANTY.	
NAMES OF PROPOSERS.	No. of pro- position.	NUMBER OF SECTION.							
		37.	41.	11 to 43.	51 to 56.	57.	58.	59.	
Craig, John,	126	.....	.....	.....	.....	23,242	41,640	26,694	Cornelius Gardinier and Peter Van Evera.
Clement, L. M. & Co.,	21	10,110	13,515	.....	.....	.....	.....	.....	John Marlett and D. P. Forrest.
Cole, Enos & Co.,	56 & 62	16,160	17,655	26,885	29,520	30,243	49,791	28,627	Thos. R. Horton and Wm. Clark.
Clark, Wm. & Co.,	40	.....	.....	.....	35,030	27,950	42,426	27,554	H. D. Ward and L. Spraker.
Cady, H. C.,	174	.....	.....	.....	26,576	.....	.....	.....	A. J. Yates and John Craig.
Cummings, W. A.,	629	.....	.....	.....	.....	34,077	57,203	43,328	John Pan and Alex. McGuire.
Chapman, W. R. & Co.,	310	.....	.....	.....	.....	25,955	54,051	30,231	C. C. Keaton and A. Fisk.
Collins, J. & Co.,	87	.....	.....	.....	.....	26,189	46,692	34,071	Wm. Beard and Jas. Fleill.
Cox, D. C. & Co.,	105	.....	.....	.....	.....	.....	.....	.....	S. Elwood and L. Averill.
Caswell, H. & Co.,	156	.....	.....	.....	.....	.....	.....	.....	Jas. Feeter and H. P. Alexander.
Decker, N. H.,	127	17,213	16,426	.....	.....	22,122	45,145	26,126	Hugh McClellan.
Decker, J. H.,	24	.....	11,943	.....	26,276	.....	.....	.....	Wm. Eggleston and J. McDonald, jr.
De Graw, C. J. & Co.,	260 & 262	14,621	9,467	26,102	.....	20,571	23,856	22,157	R. C. Kenyon and H. H. Coats.
De Forrest, D. D.,	383	.....	10,712	.....	.....	.....	.....	.....	John Stewart and Isaac Jackson.
Dunham, A. T.,	533	.....	17,152	.....	.....	28,085	51,228	33,036	A. G. Sage and E. H. St. John.
Dyckman, P. H.,	525	.....	.....	.....	.....	24,314	41,73	27,640	Austin Myers and C. S. Bromley.
Elwood, A.,	320	.....	.....	.....	.....	22,928	34,656	27,433	Nicholas Schuyler.
Elwood, H.,	188	.....	.....	.....	.....	22,666	34,087	24,178	R. E. Wood and J. Barhydt.
Fenner, A. & Co.,	208	16,524	.....	.....	.....	22,194	45,609	25,619	E. Dorian.
Fisher, R. H. & Co.,	606 & 609	23,735	21,282	36,713	40,531	25,911	36,562	23,838	J. E. Whipple.
Fennell, J. & Co.,	890	26,194	.....	.....	.....	.....	59,967	.....	Russell Sage and S. Norton.
Fonla, J.,	175	.....	.....	.....	.....	21,844	42,132	29,924	Cornelius Gardinier.
Fisher, Jno.,	49	.....	.....	36,987	37,638	16,612	36,583	.....	Lawton Benson and C. B. Chase.
Fonla, P. H.,	676	.....	.....	.....	.....	23,727	44,692	27,816	Abram D. and Henry Londa.
Gray, John J.,	592	16,435	10,174	23,404	23,084	20,224	33,885	23,285	J. J. Schuyler and Charles Diefendorf.
Gross, D. & C.,	436	.....	.....	.....	.....	.....	42,478	.....	Wm. Clark and S. Tingle.
Graham, G. & Co.,	61	.....	.....	.....	.....	22,927	39,428	26,743	John Palmer and Abram Christman.
Gardinier, C. & Co.,	708	.....	.....	.....	.....	25,09	49,857	27,138	Jno. P. nam and Marquis Barnes.
Green, Z.,	637	.....	.....	.....	.....	.....	.....	.....	Wm. Herkimer and M. Caldwell.
Grogg, E. D.,	694	.....	.....	.....	.....	.....	.....	.....	W. S. Kelley.

[illegible]

Assembly, No. 20.		Cornelius Gardiner and P. Van Evers.									
126	Craig, John,	45,083	25,509	57,291	20,873	21,487	15,791	3,829	John Marlett and D. P. Forrest.		
21	Clement, L. M. & Co.,	44,356	31,924	73,245	16,964				Thos. K. Horton and Wm. Clark.		
66 & 40	Cole, Enos & Co.,	44,362	29,897	69,180					H. D. Ward and L. Spraker.		
174	Clark, Wm. & Co.,								A. J. Yates and John Craig.		
629	Cady, H. C.,	62,232	40,565	90,829	21,381				John Pan and Alex. McGuire.		
310	Cummings, W. A.,		28,492	61,303					C. C. Keaton and A. Fisk.		
57	Chapman, W. R. & Co.,	49,694	31,398	69,877					William Beard and Jas. Flell.		
106	Collins, J. & Co.,				21,381				S. Elwood and L. Averill.		
156	Cox, D. C. & Co.,								James Peeter and H. P. Alexander.		
127	Caswell, H. & Co.,	42,119	22,919	56,600	18,871	24,119	14,717	4,319	Hugh McClellan.		
23	Decker, N. H.,				21,126	70,259	15,319	3,265	Wm. Eggleston and J. McDonald, jr.		
262	Decker, J. H.,	34,013	19,122	39,635	16,483	16,642	14,175	2,780	Wm. Eggleston and H. H. Coats.		
260 & 353	De Graw, C. J. & Co.,								as Jackson.		
553	Do Forrest, D. D.,	56,704	30,202	60,553					St. John.		
525	Dunham, A. T.,	46,794	28,424	64,822	20,581	22,539			S. Bromley.		
320	Dyckman, P. H.,	34,850			15,491	20,362			rhdt.		
188	Elwood, A.,	36,910			16,776	18,256			Norton.		
208	Elwood, H.,	41,079	22,070	56,114	20,303	19,238	14,818	4,	B. Chase.		
606, 609	Fenner, A. & Co.,	35,208	25,609	46,481	23,411						
320	Fisher, T. H. & Co.,										
175	Fennell, J. & Co.,										
49	Fonda, J.,										
573	Fisher, John,	43,368									
592	Fonda, P. H.,	33,145	29,005	67,408	19,083	21,719	14,179	3,			
436	Gray, John J.,				21,132	22,107			Wm. (
64	Gross, D. & Co.,								John I		
708	Graham, G. & Co.,	42,281	22,755	47,480					John I		
687	Gardiner, C. & Co.,								Wm. I		
594	Green, Z.,				24,165	25,427	16,804	2,704	W. B.		
225	Gregg, E. D.,				21,093	20,036	11,896	4,332	J. N. Lake and H. Molton.		
266	Greene, F.,	45,837	26,947	70,103	18,387		12,653		Leonard R. Sargeant.		
289	Healy, J.,	32,776	18,458	42,009	16,918	24,729	11,908	4,780	Henry Evans and John Peters.		
306	Hague, A. & Co.,	38,188	22,211	41,653	15,396	18,032	11,536		Wm. and Chas. Kingsbury.		
635	Haight, S. R.,	49,827	26,972						Oliver Johnson and John Sweeney.		
168	Haggerty, J. & Co.,								H. Van Slyck and A. Boyce.		
112	Haverly, N. W.,								Samuel Hart and J. B. Stafford.		
622	Hart, M.,								J. E. M. Barhydt and N. J. Schermerhorn.		
283	Johnson, Daniel,	46,320	25,675	66,482	21,001	23,084			S. Belding, jr. and James Morris.		
357	Jackson, Isaac & Co.,				16,061	21,004	12,769				
408	Johnson, R. & Co.,								J. W. Wilson and Jas. Stewart.		
	Glyne, J. W. & Co.,	44,601		24,716							

PROPOSALS--(CONTINUED.)

Engineers' estimates,	No. of pro- position.	NUMBER OF SECTION.							NAMES OF GUARANTY.
		60.	61.	62.	75.	78.	83.	84.	
Levi, B. & Co.,	376	60,089	30,803	64,112					David Nelliger and James Cashin.
Learned C. G. & Co.,	34								Edward Learned and B. H. Cheever.
Livermore, J.,	240								David P. Corey.
Ludington, M. E. & Co.,	655								C. J. De Graw and John De Wolf.
Loomis, H. & Co.,	696	40,373	97,863	169,895	20,763	57,010	17,466	4,589	E. Thomas and D. L. Farnham.
Lynch, B. & Co.,	230				27,404				J. A. Cross and G. Eisham.
Moss, J. B.,	789	inform'd	23,831	59,399					J. F. Russell.
McCue, J. J.,	546	46,374	25,724	64,475					D. D. Campbell and J. W. Schuyler.
McGuire, P.,	489	71,576	80,376						F. S. Lamport and Thos. Sausse.
McGovern, T. & Co.,	341								Giles Ross and Andrew Myers.
McQuade, P.,	730	47,176				24,797		3,283	John McKnight and A. McQuade.
McDonald, J. jr.,	187	62,399	20,208	57,109					D. Wright and J. B. Sturtevant.
McDonald, J.,	533	41,074	23,599	47,845					Thurlof Weed.
Mills, T. G.,	163	41,668	23,562	70,890	19,726	22,107	14,689	4,944	H. Brintnall and H. Swain.
Morris, W. W.,	618	60,540	35,145	80,705					Edward James.
Moore, R. L.,	63	36,821	21,035	43,682	19,934	22,238	14,031	4,028	G. S. Vincent and J. J. Grant.
Morell, W. H.,	228	51,054	33,103	73,025					W. W. Morris and T. A. Emmet, jr.
Morgan, P. & Co.,	371	59,788	24,823	58,453	18,639	22,741	15,569	2,723	Constant Cook.
McDonald, A. P.,	673, 674	55,740	31,343	60,361	24,252	25,885	16,846	5,1	
McDonald, J. & Co.,	346								impha.
Mallory, D. & Co.,	692								ref.
Matthews, C. & Co.,	119								Teller.
McNamara, H. & Co.,	601	48,424							Mahue.
McPharlin, D.,	641	84,968	34,688	62,276	53,714	62,539	36,448	5,1	
Mallory, D. G.,	451								nes Stewart.
Masteron, P. & Co.,	697	49,812	33,903						r Johnson.
Nichols, J. H.,	508, 516	58,233	31,309	68,696	28,776	26,826	18,197	5,1	
Northrup, H. B.,	643				26,241	31,828	21,039	4,1	Douleday.
Phelps, W. & Co.,	726	44,457	20,200	63,126					Corning.
Pierce, H.,	621	31,900		41,959	16,633				wareaux.

PROPOSALS—(CONTINUED.)

Engineer's estimate,.....		\$25,996	\$24,860	Locks.					\$27,367	\$21,033	NAMES OF GUARANTY.
NAMES OF PROPOSERS.	No. of propo- sition.										
		No. 2.	No. 24.	No. 32.	No. 34.	No. 36.	No. 39.				
Britton, J. W. & Co.,	167	27,542	25,198	27,691	\$24,726	\$25,714	\$29,200	A. Bell and Samuel Swain.			
Ball, J. P. & Co.,	517	35,232	29,600	36,361	29,629	32,216	37,019	J. Bonton and S. Douglas.			
Birchard, B. & Co.,	510	.....	27,306	32,634	24,644	.....	.....	Constant Cook.			
Brophy, Stephen B. & Co.,	700	31,977	24,006	29,825	.....	.....	.....	W. H. Roosevelt.			
Bradshaw, H. B.,	656	30,606	26,290	29,126	20,614	27,242	30,724	J. Knickerbocker.			
Betticher, P. D.,	110	.....	.....	26,833	25,945	26,650	29,988	J. and B. Stafford.			
Bogart, D. & Co.,	409	.....	32,924	26,070	26,142	32,934	36,899	W. Clark and S. Elwood.			
Borden, Joseph & Co.,	417	.....	.....	26,495	23,934	.....	.....	David Utley.			
Boyer, Joseph Jr. & Co.,	214	.....	.....	.....	.....	28,338	31,530	H. P. Alexander and W. J. Steiner.			
Brutler, Ezekiel,	1	.....	.....	.....	.....	27,997	30,106	W. Kimball and R. V. Sower.			
Coleman, William & Co.,	358	31,368	26,401	32,410	27,364	26,482	29,426	Matthew S. Pitcher.			
Caldwell, J. W. & Co.,	714	23,652	26,834	30,713	28,761	26,702	31,952	Geo. S. Tarbell and W. G. Burrows.			
Cole, Enos & Co.,	81	21,743	23,051	26,696	23,443	26,598	30,336	Thos. R. Horton and W. Clark.			
Campbell, S. B. & Co.,	220	25,000	31,434	35,202	31,506	34,489	36,476	H. J. Campbell and Chas. L. Austin.			
Cummings, J. P. & T.,	46	41,869	.....	.....	.....	.....	.....	James Pollock and Jas. N. Wells.			
Olford, John & Co.,	721	.....	33,009	.....	.....	.....	.....	C. S. Grinnell and Wm. Spooner.			
Oruger, W. H. & Co.,	367	.....	26,697	26,811	27,324	28,477	30,291	Lewis Birdsell.			
Cashin, James,	265	.....	29,469	.....	.....	.....	.....	.....
Clement, L. M. & Co.,	475	.....	27,452	.....	.....	.....	.....	.....
Clark, William & Co., .....	.....	.....	.....	20,071	26,713	.....	.....	.....			Ed. M. Johnson.
Dyakman, P. H.,	526	.....	.....	29,137	33,444	.....	.....	.....			Yard.
Dinnick, Levi & Co.,	209	.....	36,721	.....	.....	.....	.....	.....			Malley.
Dodtite, H. & Co.,	601	.....	.....	.....	.....	27,661	30,692	.....			Fr.
Elwood, Abram,	363	.....	.....	27,746	24,440	24,631	27,697	.....			Alexander.
Ehle, Chauncey and Co.,	116	.....	.....	31,046	30,916	.....	.....	.....			Smith.
Hyman, Henry & Co.,	361	.....	.....	.....	.....	29,507	30,041	.....			See.
Ilwood, James E. & Co.,	133	.....	.....	.....	.....	.....	26,907	.....		
Isler, Thomas M. & Co.,	454	27,066	25,319	26,702	34,236	24,662	27,969	.....		
Frischer, Peter,	846	27,941	24,373	.....	.....	.....	.....	.....
Farwell, Samuel & Co.,	193	.....	24,844	27,921	34,396	35,431	27,667	.....			Young.

PROPOSALS—(Continued.)

Engineer's estimates,		\$25,996	\$24,860	\$27,443	\$25,131	\$27,267	\$21,033
NAMES OF PROPOSERS,		LOCKS.					
NAMES OF PROPOSERS,	No. of Propo- sition.	No. 2.					
		No. 2.	No. 24.	No. 32.	No. 34.	No. 36.	No. 38.
Benjamin	658	.....	.....	\$26,104	.....	.....	\$26,877
.....	385	.....	.....	24,329	.....	\$25,036	29,137
.....	288	\$21,674	\$19,449	26,246	\$23,037	20,512	23,170
.....	238	19,833	.....	.....	-18,523	.....	.....
.....	544	26,877	31,080	30,902	30,993	37,292	45,281
.....	204	.....	25,026	26,583	20,794	24,388	28,083
.....	291	34,607	28,897	32,356	26,911	33,716	28,186
Co.,	355	.....	.....	24,881	19,754	26,151	27,603
.....	48	31,091	26,002	31,376	26,815	28,573	31,949
.....	586	24,723	.....	.....	.....	.....	.....
.....	477	.....	30,124	.....	.....	.....	.....
.....	648	20,600	32,684	35,656	.....	.....	.....
.....	534	25,707	22,894	.....	.....	.....	.....
.....	522	32,327	28,445	28,517	27,773	28,580	32,985
.....	135	25,796	22,432	22,623	23,014	.....	27,427
.....	453	32,243	28,475	31,841	26,308	26,204	32,659
.....	672	30,011	28,002	33,326	27,606	27,268	30,771
.....	619	.....	29,090	40,031	29,979	31,213	34,691
.....	560	.....	24,814	29,747	25,894	26,479	29,480
.....	90	.....	28,237	.....	.....	.....	.....
Mills, Theodore G. & Co.,	641	.....	21,381	21,193	21,449	21,533	24,760
McGown, T. & Co.,	561	.....	42,277	49,971	42,550	43,223	49,129
McGue, J. J.,	681	.....	23,627	.....	.....	.....	.....
Mallory, David H.,	460	.....	.....	.....	24,145	.....	.....
Nichols, John H.,	525	32,213	26,370	26,201	26,729	27,490	30,886
Noone, Luke & Co.,	647	23,137	26,634	31,307	.....	.....	.....
Newton, William & Co.,	63	.....	.....	.....	.....	26,878	29,275
Palmer, David,	73	28,041	25,373	26,877	26,223	27,047	30,037
Rogers, David,	268	28,722	21,177	23,252	21,330	24,959	27,777
NAMES OF GUARANTY.		NAMES OF GUARANTY.					
.....		John O. Fraser and C. Vrooman.					
.....		Nicholas N. Schuyler.					
.....		Henry Evans and John Peters.					
.....		Nicholas Schuyler.					
.....		Charles L. Austin.					
.....		William and Charles Kingsbury.					
.....		S. Belding, jr., and Jacob Morris.					
.....		H. P. Alexander and George H. Foster.					
.....		Arch. Dunlop and Thomas H. Clowes.					
.....		R. W. Chubbick and E. T. Ballard.					
.....		D. J. McMartin and John Stewart.					
.....		M. Schoonmaker and J. Clinton.					
.....		Thurlof Wood.					
.....		J. McKnight and A. McQuade.					
.....		D. Wright and Jno. B. Sturtevant.					
.....		Homer Ramezale and D. Moore.					
.....		E. P. Cowles.					
.....		Edward James.					
.....		W. W. Morris and Thomas A. Kmetz, jr.					
.....		Henry Swan and H. Brintnall.					
.....		G. Ross and A. Myers.					
.....		E. D. Gregg and Daniel Johnson.					
.....		James Stewart and Almarin Young.					
.....		John F. Rathbone.					
.....		Joseph Clinton and W. Davis.					
.....		Isaac S. and Lucius Newton.					
.....		Geo. Law and M. C. Sturvy.					
.....		S. Voorhees and D. J. McMartin.					

Reynolds, Thomas & Co.,	165	25,649	21,825	22,919	21,098	24,578	27,527	Edward Dodd.
Richardson, Phoenix & Co.,	296	25,372	23,365	25,262	19,366	24,699	27,877	Geo. Strover and T. N. Dillingham.
Rusbeck, J. M. & Co.,	277	.....	.....	27,214	22,717	28,390	28,862	P. Remington and Chas. Gry.
Stewart, James,	272	25,124	23,783	25,403	21,804	24,898	27,975	d Alexander Sheldon.
Sturtevant, John A. & Co.,	464	20,743	26,976	30,983	27,799	29,795	.....	D. Wright.
Savage, James & Co.,	817	41,868	37,161	41,730	39,566	42,441	47,888	.....
Schoffler, Aaron,	161	17,862	16,183	.....	15,978	16,959	19,865	David Palmer.
Storey, Miner C.,	500	27,106	24,457	29,844	25,306	27,365	30,484	Sam. Wood.
Storrs, H. E.,	404	29,210	27,198	32,162	28,845	20,493	29,631	.....
Swart, Aaron & Co.,	405	.....	27,154	.....	.....	.....	.....	A. J. Yates and J. Swart.
Shuler, W. S.,	447	24,528	24,528	.....	.....	.....	.....	Shuler Cady and George Yost.
Bobermerborn, M. L. & Co.,	207	24,345	.....	28,910	.....	.....	.....	W. R. Ford and R. J. Grant.
Stafford, Brown,	646	.....	.....	30,705	28,602	29,068	32,842	J. Stafford and P. D. Betticher.
Saunders, James & Co.,	394	.....	.....	30,962	29,605	30,812	30,717	H. M. Birch and Nelson Rust.
Stimpson, Sam. W. & Co.,	258	.....	.....	25,331	28,118	30,734	33,960	H. Caswell and F. P. Bellinger.
Schnuyler, Nicholas,	394	.....	.....	25,146	28,170	29,400	31,826	Thomas Countryman.
Schnuyler, Nicholas N.,	321	.....	.....	23,418	20,928	26,556	28,880	Abraham Elwood.
Sage, A. G. & Co.,	434	.....	.....	27,131	25,011	35,805	.....	J. B. Chollar and Benjamin H. Sage.
Sage, Ezekiah,	237	.....	.....	27,464	25,213	.....	30,737	John Sanford.
Smith, John C. & Co.,	412	.....	.....	28,614	24,969	.....	.....	Jedah Smith.
St. John, E. M. & Co.,	435	.....	.....	.....	.....	.....	28,492	A. G. Sage.
Taylor, E. & Co.,	675	22,747	27,633	31,516	31,820	34,596	38,139	P. Brayton.
Tobbe, Peter & Co.,	704	.....	.....	23,130	21,225	27,871	.....	Bowen.
Usher, William & Co.,	.....	.....	.....	.....	.....	27,019	32,433	H. Caswell and William J. Skinner.
Upton, John & Co.,	16	33,780	.....	.....	.....	26,680	29,254	P. D. McNabb and Thomas Cowell.
Utley, David,	383	.....	.....	25,693	22,734	30,648	35,206	William H. Kil.
Van Deburgart, M. & Co.,	244	35,615	27,692	32,732	28,691	30,648	31,364	See Lock proposition.
Van Zile, Jesse,	38	32,180	27,795	33,318	28,171	28,427	.....	Benjamin Marshall and John A. Griswold.
Van De Mark, John & Co.,	684	26,066	22,966	.....	.....	.....	.....	S. E. Ford.
Van Der Karr, L. & Co.,	70	34,087	33,499	38,144	33,506	34,059	38,492	T. Van Der Karr and R. Powers.
Vrooman, J. N.,	549	.....	30,652	.....	.....	.....	.....	A. A. Van Voorst and William McCamus.
Vedder, H. U.,	442	.....	25,527	.....	.....	.....	.....	A. M. and S. Y. Vedder and J. Cady.
Van Evers, E. K. & Co.,	263	.....	.....	36,893	.....	.....	.....	A. N. Van Alstyne and S. Sammons.
Wright, William W.,	707	31,428	.....	.....	.....	.....	.....	H. Randall and H. J. Hastings.
Willcox, Charles,	389	33,612	30,262	.....	.....	.....	.....	J. B. Wdox and G. Benedict.
Williams, George & Co.,	336	.....	24,994	29,394	24,899	25,820	29,297	A. Hunt and J. O. H. Rockfellow.
Williams, W. H.,	205	.....	25,772	23,403	21,166	21,565	24,423	Thomas Burch and S. M. Richmond.
Wiles, John L.,	157	.....	.....	26,649	23,622	26,692	30,030	M. L. Harris and G. P. Van Alstyne.
Wells, A. H. & Co. (Wells withdrawn),	520	35,359	.....	.....	.....	.....	.....	P. O. Van Wyck.
Willson, Henry,	268	.....	.....	34,245	27,371	.....	.....	Alexander Eggleston and P. Rogers.
Ward, H. D. & Co.,	668	.....	.....	29,202	26,668	.....	.....	W. Clark and R. H. Cushman.

PROPOSALS—(CONTINUED.)

Engineers' estimates,.....		\$45,267	\$27,041	\$52,249	\$23,796	\$23,591	\$14,712	\$4,321		
NAMES OF PROPOSERS.		NUMBER OF SECTION.								NAMES OF GUARANTY.
No. of pro- position.		60.	61.	62.	73.	78.	83.	84.		
398 & 399	Allen S. & Co.,	\$43,634	\$22,643	\$58,695	19,055	.....	\$13,154	\$2,879	M. Western and A. J. Yates.	
432	Alexander, H. P. & Co., .....	.....	21,421	.....	.....	23,244	.....	.....	W. J. Skinner and Homer Caswell,	
639	Adams, W.,	39,520	23,150	52,000	.....	.....	.....	.....	H. P. Van Dresser.	
327	Borden, H. P. & Co.,	45,565	25,375	59,361	19,826	21,377	14,603	.....	John Stafford and P. Whitmore.	
652	Britton, J. W. & Co., .....	.....	.....	.....	.....	.....	.....	.....	A. Bell and S. Britton.	
142	Beach, J. S. & Co., .....	.....	.....	.....	.....	.....	.....	.....	H. Chapman and W. H. Beach.	
221	Brintnall, H. & Co.,	50,270	53,678	125,541	16,851	40,283	11,979	2,381	John Wilkinson.	
111	Bretcher, T. D., .....	.....	.....	.....	.....	.....	.....	.....	J. and B. Stafford.	
491	Buell, W. W.,	42,356	26,824	63,320	.....	.....	.....	.....	J. F. Johnson, Chief Eng'r T. & B. R. R.	
636	Luell, Orson,	42,736	22,313	66,952	.....	.....	.....	.....	.....
539	Gigham, A. & Co.,	45,047	26,707	55,734	.....	.....	.....	.....	W. W. Wright and P. V. Burtiss.	
665	Bradshaw, H. B.,	54,591	29,741	63,849	22,894	25,739	17,341	4,99	I. Knickerbacker.	
572	Bell, Geo. & Co.,	41,728	.....	.....	19,293	18,519	.....	.....	I. Sanford and D. Wright.	
22	Barker, A. B., .....	.....	.....	.....	26,261	28,643	.....	3,693	S. M. Payne and P. Barton.	
26	Barhydt, J. R. M.,	48,624	26,926	59,837	22,42	.....	13,649	3,83	W. Barhydt and Wm. Fuller.	
685	Barton, W. & Co.,	32,293	26,059	41,377	20,819	18,941	14,01	3,047	E. Ford.	
419	Norton, J. & Co.,	48,770	.....	53,981	20,304	24,255	16,262	3,804	David Utley and Jno. Morris.	
701	Bowen, S., .....	.....	.....	.....	.....	.....	.....	.....	John Darrow and Geo. Yost.	
879	Butler, W. J., .....	.....	.....	.....	20,181	23,052	.....	.....	John Mosher and Henry Card.	
562	Corne l, G. W. & Co.,	51,080	31,784	.....	.....	.....	.....	.....	Charles L. Austin.	
433	Callender, G. F. & Co.,	41,888	24,019	61,56	21,933	25,614	15,670	4,24	A. W. Ostrander & W. J. Nelson.	
50	Cullen, J. & Co.,	42,648	23,28	.....	.....	.....	.....	.....	P. D. Collins and Chas. Duncan.	
259	Campbell, S. B. & Co.,	53,394	32,525	60,976	.....	.....	.....	.....	Henry J. Campbell and Chas. L. Austin.	
64	Carmichael, B. F. & Co., .....	.....	.....	.....	.....	.....	.....	.....	.....
716	Candee, W. & Co.,	38,476	21,63	61,57	18,736	21,008	14,02	3,48	D. Dennison and S. Hart.	
337	Cadwell, J. W. & Co.,	51,241	29,958	69,128	.....	.....	.....	.....	G. R. Tarbell and W. S. Burrows.	
608	Casidy, J.,	31,199	24,931	63,785	22,696	26,763	15,908	3,93	I. F. Green and T. Green.	
471	Coleman, W. & Co., .....	.....	.....	.....	.....	.....	.....	.....	W. S. Pitcher.	
218	Cleary, Wm. & Co.,	47,879	25,821	62,236	23,378	26,525	15,500	3,880	Powell, Ramdale & Co.	
980	Cruger, Wm. H. & Co.,	42,430	24,804	63,334	21,670	21,295	14,767	.....	Lewis Burdall.	

PROPOSALS—(CONTINUED.)

Engineers' estimates,		\$45,287	\$27,041	\$52,249	\$23,796	\$23,590	\$14,713	\$4,321	NAMES OF GUARANTY.	
NAMES OF PROPOSERS.		NUMBER OF SECTION.								
No. of pre- position.		60.	61.	62.	75.	78.	83.	84.		
Levi, B. & Co.,	370	50,089	30,803	64,112	.....	.....	.....	.....	David Nellgar and James Cashin.	
Learned C. G. & Co.,	34	.....	.....	.....	.....	.....	.....	.....	Edward Learned and B. H. Cheever.	
Livermore, J.,	200	.....	.....	.....	.....	.....	.....	.....	David P. Corey.	
E. & Co.,	555	.....	.....	.....	.....	.....	.....	.....	C. J. De Graw and John De Wolf.	
Co.,	696	40,373	97,803	169,890	20,763	57,010	17,466	4,589	E. Thomas and D. L. Farnham.	
Co.,	230	.....	.....	.....	27,404	.....	.....	.....	J. A. Cross and G. Elsham.	
Moss, J. B.,	789	informal	23,831	59,399	.....	.....	.....	.....	J. F. Russell.	
McCue, J. J.,	646	46,374	25,724	64,475	.....	.....	.....	.....	D. D. Campbell and J. W. Schuyler.	
McGuire, P.,	489	71,576	80,376	.....	.....	.....	.....	.....	F. S. Lamport and Thos. Sausse.	
McGovern, T. & Co.,	341	.....	.....	.....	.....	.....	.....	.....	Giles Ross and Andrew Myers.	
McQuade, P.,	730	47,176	.....	.....	.....	24,797	.....	3,285	John McKnight and A. McQuade.	
McDonald, J. Jr.,	187	62,339	20,208	57,109	.....	.....	.....	.....	D. Wright and J. B. Sturtevant.	
McDonald, J.,	532	41,074	23,599	47,865	.....	.....	.....	.....	Thurlow Weed.	
Mills, T. G.,	163	41,658	23,562	70,890	19,726	22,107	14,699	4,944	H. Swain.	
Morris, W. W.,	618	60,640	35,145	80,705	.....	.....	.....	.....	J. J. Grant.	
Moore, R. L.,	53	36,821	21,035	43,692	19,934	22,238	14,031	4,028	T. A. Emmet, Jr.	
Morell, W. H.,	228	51,054	33,103	73,025	.....	.....	.....	.....	Edward P. Cowles.	
Morgan, P. & Co.,	371	39,788	24,823	58,453	18,639	22,741	15,569	2,723	J. Stewart and J. McClumpha.	
McDonald, A. P.,	673, 674	56,740	31,343	65,361	24,252	25,985	16,845	5,139	J. Sandford and J. Vischer.	
McDonald, J. & Co.,	346	.....	.....	.....	.....	.....	.....	.....	A. Matthews and J. W. Teller.	
Mallory, D. & Co.,	692	.....	.....	.....	.....	.....	.....	.....	James Brady and James Mahue.	
Mathews, C. & Co.,	119	.....	.....	.....	.....	.....	.....	.....	.....
McNamara, H. & Co.,	601	48,424	.....	62,376	.....	.....	.....	.....	.....
McPhartlin, D.,	641	54,988	34,688	.....	53,714	62,839	36,448	6,180	.....
Mallory, D. G.,	461	.....	.....	.....	.....	.....	.....	.....	.....
Masters, P. & Co.,	597	49,812	83,903	.....	.....	.....	.....	.....	.....
Nichols, J. H.,	608, 616	58,233	31,209	68,696	23,776	26,826	18,187	5,363	.....
Northrup, H. B.,	643	.....	.....	.....	28,241	31,828	21,039	4,277	.....
Phelps, W. & Co.,	726	44,457	20,200	63,126	.....	.....	.....	.....	.....
Pierce, H.,	621	31,900	.....	41,969	16,633	.....	.....	.....	.....

ward.
on.
day.
r.
k.

PROPOSALS—(CONTINUED.)

Engineer's estimate,.....		LOCKS.							\$31,033		NAMES OF GUARANTY.	
NAMES OF PROPONENTS.		No. of proposition.	No. 2.	No. 24.	No. 32.	No. 34.	No. 38.	No. 39.				
Britton, J. W. & Co.,	187	27,542	25,198	27,681	\$24,726	\$25,714	\$29,200	A. Bell and Samuel Swain.				
Bull, J. P. & Co.,	517	35,232	29,800	26,361	29,629	32,216	37,016	J. Bonton and S. Douglas.				
Birchard, B. & Co.,	510	.....	27,306	32,534	24,844	.....	.....	Constant Cook.				
Brophy, Stephen D. & Co.,	700	31,977	24,009	29,825	.....	.....	.....	W. H. Roosevelt.				
Bradshaw, H. B.,	686	30,896	26,290	29,125	29,614	27,243	30,724	J. Knickerbocker.				
Bettcher, P. D.,	110	.....	.....	26,633	25,945	26,650	29,968	J. and B. Stafford.				
Bogart, D. & Co.,	469	.....	32,924	26,070	25,142	32,934	36,899	W. Clark and S. Elwood.				
Borden, Joseph & Co.,	417	.....	.....	26,495	.....	.....	.....	David Uttley.				
Boyer, Joseph Jr. & Co.,	214	.....	.....	.....	.....	.....	.....	H. P. Alexander and W. J. Skinner.				
Builer, Ezekiel,	1	.....	.....	.....	.....	.....	.....	W. Kimball and R. V. Sowerby.				
Coleman, William & Co.,	556	31,368	26,401	32,410	27,364	26,483	29,426	Matthew S. Pitcher.				
Caldwell, J. W. & Co.,	714	33,662	26,834	29,713	28,761	26,703	31,932	Geo. S. Tarbell and W. G. Burrows.				
Cole, Enos & Co.,	61	24,743	23,051	26,696	23,443	26,506	30,336	Thos. B. Harton and W. Clark.				
Campbell, S. B. & Co.,	226	35,000	31,434	35,202	31,566	34,489	38,476	.....			
Cummings, J. P. & T.,	46	41,969	.....	.....	.....	.....	.....	.....
Clifford, John & Co.,	721	.....	33,099	.....	.....	.....	.....	.....
Croger, W. H. & Co.,	507	.....	26,697	28,811	27,324	28,477	33,291	.....			
Castin, James,	265	.....	29,469	.....	.....	.....	.....	.....
Clement, L. M. & Co.,	475	.....	27,452	.....	.....	.....	.....	.....
Clark, William & Co., .....	.....	.....	.....	30,071	26,713	.....	.....	.....	
Dykman, P. H.,	526	.....	.....	29,137	23,444	.....	.....	.....	
Dimmick, Levi & Co.,	209	.....	26,721	.....	.....	.....	.....	.....
Doctt, H. & Co.,	651	.....	.....	.....	.....	.....	.....	.....
Elwood, Abram,	363	.....	.....	27,745	.....	27,061	30,892	.....			
Eale, Chauncey and Co.,	116	.....	.....	31,646	24,440	24,531	27,697	.....			
Evans, Henry & Co.,	231	.....	.....	.....	26,916	.....	.....	.....	
Elwood, James E. & Co.,	133	.....	.....	.....	.....	29,567	30,041	.....			
Flaher, Thomas E. & Co.,	464	27,965	.....	.....	.....	.....	28,807	.....			
Fritcher, Peter,	545	27,341	24,373	.....	26,782	24,532	27,669	.....			
Furwell, Samuel & Co.,	192	.....	24,844	27,321	.....	26,431	27,967	.....			

Johnson.

PROPOSALS—(Continued.)

Engineer's

NAMES OF PROPOSERS,	No. of propo- sition.	Locks.						No. 37.	No. 38.	No. 39.	NAMES OF GUARANTY.
		No. 2.	No. 24.	No. 32.	No. 34.	No. 35.	No. 36.				
Prater, Benjamin,	638	.....	.....	\$26,104	.....	.....	.....	\$27,267	.....	\$21,031	John O. Fraser and C. Freeman.
Filkins, Cornelius,	385	.....	.....	24,330	828,037	.....	.....	.....	.....	29,137	N. Schuyler.
Hague, Andrew & Co.,	263	\$21,674	\$19,449	26,540	-13,523	.....	.....	.....	.....	23,170	Evans and John Peters.
Helmer, Joseph W.,	238	19,858	.....	.....	.....	.....	.....	.....	.....	.....	Schuyler.
Higgins, John,	544	26,877	31,080	30,902	30,993	37,203	46,281	.....	.....	.....	L. Austin.
Haight, S. B.,	304	.....	25,026	26,693	20,794	24,396	28,083	.....	.....	.....	and Charles Kingsbury.
Jackson, Isaac & Co.,	291	34,607	28,897	32,358	26,911	33,716	38,186	.....	.....	.....	ing, jr., and Jacob Morris.
Johson, Robert & Co.,	355	.....	.....	24,881	19,764	28,161	27,608	.....	.....	.....	Alexander and George H. Foster.
Learned, E. & Co.,	48	31,091	26,002	31,376	26,815	28,573	31,949	.....	.....	.....	Penlop and Thomas H. Clowes.
Lewis, Samuel,	585	24,723	.....	.....	.....	.....	.....	.....	.....	.....	Chubbick and E. T. Ballard.
Logan, W. & Co.,	477	.....	38,124	.....	.....	.....	.....	.....	.....	.....	McMartin and John Stewart.
Murray, Edward,	648	29,600	32,684	35,556	.....	.....	.....	.....	.....	.....	McMartin and John Stewart.
McDonald, James,	534	25,707	22,894	.....	.....	.....	.....	.....	.....	.....	McMartin and John Stewart.
McQuade, Patrick,	622	32,327	28,445	28,517	27,773	28,580	32,985	.....	.....	.....	Thurlof Weed.
McDonald, John Jr.,	135	25,790	23,432	22,623	23,014	.....	27,427	.....	.....	.....	J. McKnight and A. McQuade.
Mallory, James H.,	459	32,243	28,475	31,841	26,308	29,204	32,659	.....	.....	.....	D. Wright and Jno. B. Sturtevant.
McDonald, Angus P.,	672	30,011	28,002	33,825	27,668	27,368	30,771	.....	.....	.....	Homer Ramsdale and D. Moore.
Morris, W. W. & Co.,	619	.....	29,890	40,031	29,979	31,212	34,691	.....	.....	.....	E. P. Cowles.
Myers, Austin & Co.,	560	.....	24,814	29,747	25,894	26,479	29,480	.....	.....	.....	Edward James.
Morell, W. H.,	80	.....	28,237	.....	.....	.....	.....	.....	.....	.....	W. W. Morris and Thomas A. Emmett, jr.
Mills, Theodore G. & Co.,	641	.....	21,361	21,198	21,449	21,533	24,760	.....	.....	.....	Henry Swan and H. Brintnall.
McGowan, T. & Co.,	361	.....	42,277	49,971	42,556	43,223	45,129	.....	.....	.....	G. Ross and A. Myers.
McQue, J. J.,	681	.....	28,527	.....	.....	.....	.....	.....	.....	.....	E. D. Gregg and Daniel Johnson.
Mallory, David H.,	460	.....	.....	.....	24,146	.....	.....	.....	.....	.....	James Stewart and Almarin Young.
Nichols, John H.,	523	32,213	26,370	36,301	26,720	27,490	30,866	.....	.....	.....	John F. Rathbone.
Noone, Luke & Co.,	647	23,157	26,534	31,307	.....	.....	.....	.....	.....	.....	Joseph Clinton and W. Davis.
Newton, William & Co.,	83	.....	.....	.....	.....	25,878	29,276	.....	.....	.....	Lucius Newton.
Palmer, David,	73	28,041	25,373	26,877	25,323	27,047	30,037	.....	.....	.....	M. C. Storey.
Boyer, David,	368	28,723	21,177	23,252	21,530	24,959	27,777	.....	.....	.....	and D. J. McMartin.

105	25,649	21,828	23,019	21,028	24,578	27,527	Dillingham.
206	25,372	23,865	25,262	19,366	24,699	27,877	Gray.
277	.....	.....	27,214	22,717	28,900	28,862	under Sheldon.
272	25,124	23,783	25,468	21,804	24,898	27,975	light.
446	30,743	26,976	30,982	27,799	29,795	.....
517	41,868	37,161	41,780	39,566	42,441	47,889	
161	17,862	16,183	.....	15,978	16,959	19,865	Palmer.
500	27,106	24,457	29,844	25,806	27,365	30,484	Weed.
404	29,210	27,198	32,162	28,845	26,493	29,631	A. J. Yates and J. Stewart.
405	.....	27,164	.....	.....	.....	.....
447	.....	24,528	.....	.....	.....	.....
207	.....	24,845	28,910	.....	.....	.....
646	.....	.....	30,705	28,602	29,068	32,842	.....
384	.....	.....	30,982	29,606	29,812	30,717	.....
258	.....	.....	25,331	23,113	30,734	33,960	.....
394	.....	.....	25,146	23,170	29,400	31,826	.....
321	.....	.....	23,418	20,928	26,556	28,880	.....
434	.....	.....	27,131	25,011	35,805	.....	Sage.
227	.....	.....	27,464	25,213	.....	30,737	John Sanford.
412	.....	.....	28,614	24,989	.....	.....	Isiah Smith.
435	.....	.....	.....	.....	.....	28,492	A. G. Sage.
675	32,747	27,633	31,518	31,820	34,506	38,139	P. Brayton.
704	.....	.....	23,130	21,226	27,871	.....	John Darrow and Sol. Bowen.
.....	.....	.....	.....	.....	27,019	32,433	H. Caswell and William J. Skinner.
16	33,730	.....	.....	.....	.....	.....	P. D. McNabb and Thomas Cowell.
383	.....	.....	25,693	22,734	26,680	29,254	William H. Hill.
244	35,615	27,692	32,732	28,691	30,048	36,206	T. Van Der Karr and R. Powers.
38	32,180	27,795	33,318	28,171	28,427	31,364	A. A. Van Voorst and William McCamus.
684	26,066	22,966	.....	.....	.....	.....	A. M. and S. Y. Vedder and J. Cady.
70	34,067	33,499	38,144	33,506	34,069	38,492	A. N. Van Alstyne and S. Sammons.
549	.....	30,652	.....	.....	.....	.....	H. Randall and H. J. Hastings.
442	.....	25,527	36,803	.....	.....	.....	J. B. Wilcox and G. Benedict.
253	.....	.....	.....	.....	.....	.....	A. Hunt and J. O. H. Rockfellow.
707	31,428	30,262	.....	24,899	25,820	29,297	Thomas Burch and S. M. Richmond.
589	33,512	24,994	29,394	21,166	21,565	24,423	M. L. Harris and G. P. Van Alstyne.
335	.....	25,772	22,403	23,622	26,692	30,030	P. C. Van Wyck.
206	.....	.....	26,649	.....	.....	.....	Alexander Eggleston and P. Rogers.
167	.....	.....	.....	.....	.....	.....	W. Clark and R. H. Cushman.
520	35,359	.....	.....	.....	.....	.....
368	.....	.....	24,246	27,371	.....	.....
668	.....	.....	29,202	26,668	.....	.....

Wilson, Henry,
Ward, H. D. & Co.,

PROPOSALS—(CONTINUED.)

English estimates.....	ACQUEDUCTS.				No. of propositions.	NAMES OF PROPOSERS.	NAMES OF QUARRANTY.
	\$18,430	\$20,736	\$17,264	\$5,434			
	Printings.	Oldsmen.	Lashers.	Phillips.			
Bell, J. P. & Co.,.....	21,976	26,814	21,171	5,149	488	.....	J. Boushdon and S. Douglas.
Birchard, R. & Co.,.....	17,728	19,624	15,975	.....	511	.....	.....
Bradshaw, H. B.,.....	18,825	21,748	17,685	5,944	643	.....	.....
Bogart, D. & Co.,.....	.....	.....	17,781	.....	469	.....	Elwood.
Bertholt, J. S. M. & Co.,.....	16,792	17,157	14,274	5,053	39	.....	William Feller.
Borden, Joseph and Co.,.....	14,374	16,122	14,990	.....	422	.....	David Utley.
Borden, H. P. & Co.,.....	15,398	15,837	12,504	.....	525	.....	J. Stafford and P. Whetstone.
Bellinger, P. A.,.....	.....	20,040	16,139	.....	465	.....	A. H. Prescott and L. L. Lowell.
Bradley, Benj.,.....	18,412	23,186	17,291	.....	571	.....	.....
Caldwell, J. W. & Co.,.....	19,888	26,265	21,272	.....	616	.....	.....
Cole, Euse & Co.,.....	17,746	19,263	15,462	.....	58	.....	.....
Campbell, S. B. & Co.,.....	26,694	28,503	23,439	.....	52	.....	.....
Cummings, J. P. & T.,.....	20,887	24,657	20,013	.....	45	.....	.....
Cruiger, W. H. & Co.,.....	.....	20,430	17,052	.....	368	.....	.....
Clark, William & Co.,.....	18,839	19,408	16,175	.....	42	.....	.....
Cullen, James & Co.,.....	17,534	18,866	15,605	.....	148	.....	.....
Dyckman, P. H.,.....	15,171	19,871	16,076	.....	527	.....	.....
Decker, J. H.,.....	15,768	17,230	14,046	.....	24	.....	.....
Dunham, A. T. & Co.,.....	7,001	19,186	15,419	.....	564	.....	.....
Filkins, Cornelius,.....	14,965	16,556	14,647	.....	189	.....	.....
Groat, Jacob & Co.,.....	18,146	19,898	17,616	.....	451	.....	.....
Gray, John J.,.....	17,197	21,332	15,684	.....	593	.....	.....
Gardner, Cornelius & Co.,.....	18,412	22,083	18,319	.....	709	.....	.....
Haight, S. B.,.....	17,698	20,985	16,806	.....	309	.....	.....
Jackson, Isaac & Co.,.....	18,274	20,063	16,609	.....	394	.....	.....
McDonald James,.....	14,237	15,786	12,798	.....	530	.....	.....
Morris, W. W. & Co.,.....	29,132	31,067	.....	.....	631	.....	.....
Morell, W. H.,.....	.....	24,456	20,041	.....	122	.....	.....
Mills, Theo. G. & Co.,.....	19,216	17,733	14,568	.....	14	.....	.....
Palmer, David,.....	19,770	21,668	17,757	.....	75	.....	.....

jr.

Reed, James B. & Co.,	16,408	17,418	14,487	5,315	W. G. Wait and S. G. Green.
Rogers, David,	18,527	17,443	13,908	5,058	J. McMartin.
Riverton, Phoenix & Co.,	18,704	20,042	16,831	4,829	T. N. Dillingham.
Reilly John,	14,020	18,181	14,808		J. Higgins.
Stewart, James,	15,098	19,442			Alex. Sheldon.
Sturtevant, John A. & Co.,	23,494	23,506	23,475		John Sanford and D. Wright.
Savage, James & Co.,	12,564	15,082	12,860	4,083	Thomas James.
Schuyler, Aaron,	19,505	21,908	17,943	5,208	
Storey, Minor O.,	17,907	19,843	16,334	6,494	Wood.
Storm, H. E.,		19,358			st.
Shuler, W. B.,	12,853	14,013	11,802		bar.
Stafford, Brown,	19,303	21,804	18,748	5,920	
Stimpeon, Saul. W. & Co.,	18,821	23,467	17,519		
Smith, John C. & Co.,	13,681	15,842	12,728		
Stearns, Thomas and Co.,	18,591	19,806	16,452		
Smith, George,	15,697	13,337	10,800		
Tobie, Peter & Co.,	16,135	17,757	14,346	4,368	
Van De Bogart, N. & Co.,	24,119	25,743			A. Griswold.
Voss Zile, Jesse,	25,486	27,991	23,247	6,503	ers.
Van Der Karr, L. & Co.,	18,745	20,050	17,106		McCanna.
Vrooman, J. N.,	13,363	16,887	14,180	4,324	A. M. and S. Y. Vedder and J. Oady.
Vedder, H. U.,	*16,319	22,901	18,833		A. N. Van Alstene and S. Sammons.
Van Evers, B. K. & Co.,	15,348		15,812		
Van Deusen, C. G.,	14,161	17,357	12,988		G. P. Van Alstene.
Wiles, John J.,	26,339	29,043	24,006		nd P. Rogers.
Wilson Henry,	16,876	20,173	16,902		H. Cudney.
Ward, H. D. & Co.,	13,976	16,689			n and Wm. B. Wemple.
Tate, A. J.,					

* The above amount is as exhibited on canvas sheet, but should be \$21,319. (Error in canvas.)

Van De Bogart, N. & Co.,.....	247	4,595	.....	245	3,592	12,712	10,210	(See lock prop.)
Van Der Kar, L. & Co. ....	.....	.....	.....	602	.....	14,756	9,535	T. Van Der Karr and R. Powers.
Vedder, H. U.,.....	444	4,852	4,852	443	.....	.....	8,008	A. M. and S. Y. Vedder and J. Cady.
Van Evert, E. K. & Co., .....	.....	.....	.....	254	3,177	12,943	8,597	A. N. Van Alstyne and S. Sammons.
Wiles, John I.,.....	.....	.....	.....	264	.....	.....	7,029	M. L. Harris and G. P. Van Alstyne.
Wiles, D. & Co.,.....	699	.....	3,957	.....	.....	.....	.....	J. H. Caswell.
Ward, H. D. & Co.,.....	.....	.....	.....	670	3,552	16,986	10,485	W. Clark and R. H. Cushman.
Yates, A. J.,.....	100	.....	3,815	.....	.....	.....	.....	G. F. Van Vechten and Wm. B. Wemple.

PROPOSALS—(CONTINUED.)

Road Bridge Abutments on Section Nos—									
13	16	18	19	23	35	56	77	78 to 84 inclusive	
NAMES OF QUARANTY.									
Bradshaw, H. B.,	\$1,746	\$1,746	\$1,746	\$1,746	\$1,746				J. Knickerbocker.
Beech, J. B. & Co.,	2,407	2,407	2,407						H. Chapman and W. H. Beech.
Birchard, B. & Co.,	1,606	1,606	1,606	1,606	1,606	1,366	1,366	1,366	1,366 Constant Cook.
Barker, A. B.,	1,727	1,727	1,644	1,644	1,585				S. N. Payne and P. Barker.
Ball, J. P. & Co.,	2,416	2,416	2,416	2,416	2,416	2,146			J. Bonten and E. Dorlan.
Bettcher, P. D.,			1,474	1,474	1,459	1,459			J. & B. Stafford.
Bogert, D. & Co.,							1,643	1,643	1,643 W. Clark and S. Elwood.
Beyer, J. Jr. & Co.,									1,489 W. J. Skinner and H. Caswell.
Chapman, H.,	2,645	2,645	2,645						E. H. Chapman and J. D. Beech.
Candee, William & Co.,	1,736	1,736	1,736	1,736	1,736	1,603	1,330	1,330	1,330 D. Denison and S. Hart.
Colwell, W. & Co.,	1,666	1,666	1,666			1,684			
Clark, W. & Co.,	2,013	2,013		1,900	1,900				
Cole, E. & Co.,	1,561			1,661	1,561				
Craig, John,						1,579			
Caldwell, J. W. & Co.,						1,684			
Dann, Peter,	1,632	1,632	1,632	1,632	1,632	1,632	1,632	1	
Dimmick, Levi & Co.,	1,743	1,743	1,743						
Daly, R.,		1,827	1,827						
Dykeman, P. H.,						1,503	1,503	1	
Grant, Jacob & Co.,		1,356	1,356	1,356	1,356	1,356			
Haight, Storm R.,	2,200	2,200	2,200	1,958	1,958				
Jackson, Isaac & Co.,					1,661	1,661			
Johnson, Robert & Co.,							1,867	1	
Learned, E. & Co.,	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1	
Morris, W. W. & Co.,		2,242	2,242		2,242	2,242			
Morrell, W. H.,		2,091	2,091	2,091	1,984	1,984			
McDonald, James,	1,826	1,826	1,826	1,826	1,442	1,442			
McFarlan, James,	1,870	1,870	1,870	1,870	1,870	1,870	1,870	1	
Nash, John,	1,651	1,651	1,651	1,651					

[illegible]

[illegible]

PROPOSALS—(CONTINUED.)

Engineers' estimates,	No. of propositions.	NAMES OF PROPOSERS.	FARM BRIDGE ADJUSTMENTS ON SECTIONS Nos.										NAMES OF GUARANTY.
			36.	37.	44.	45.	Inclu- 46 to 56	57.	58.	59.	60.		
Borden, H. P. & Co.,	326	1,297	1,207			999	999	999	999	999	999	J. Stafford and P. Whitmore.	
Bradshaw, H. B.,	602	993	993		1,297	1,297	1,297	1,297	1,297	1,297	1,297	J. Knickerbocker.	
Burehard, B. & Co.,	417	1,203	1,203		993	993	993	993	993	993	993	Constant, Cook.	
Barker, A. B.,	497											S. N. Payne and P. Barker.	
Ball, J. P. & Co.,	237											J. Bouton and E. Dorian.	
Betticher, P. D.,	107											J. and B. Stafford.	
Bogart, D. & Co.,	456											W. Clark and S. Elwood.	
Callen, James & Co.,	85	1,236	1,236		1,236	1,236	1,236	1,236	1,236	1,236	1,236	William Beard and Jas. Fiel.	
Caldwell, J. W. & Co.,	96	1,333	1,333			1,005	1,005	1,005	1,005	1,005	1,005	G. S. Tarbell and W. G. Barrows.	
Cole, Enos & Co.,	67	1,231	1,231	1,156	1,156	1,066	1,066	1,066	1,066	1,066	1,066	T. R. Horton and W. Clark.	
Candee, William & Co.,	717	1,362	1,362			1,293	1,293	1,293	1,293	1,293	1,293	D. Denison and S. Hart.	
Clark, William & Co.,	43					980	980	980	980	980	980	L. Smaker and H. D. Ward.	
Craig, John,	135					1,089	1,089	1,089	1,089	1,089	1,089	Van Evers.	
Dyckman, P. H.,	324					1,578	1,578	1,578	1,578	1,578	1,578	Bromley.	
Eggleston James,	369	985	985	985	985	985	985	985	985	985	985	P. Rogers.	
Groat, Jacob & Co.,	456	1,418	1,418									Chas. and William Kingsbury.	
Haight, Storm R.,	309					1,216	1,216	1,216	1,216	1,216	1,216	S. Belding, jun., and Jacob Morris.	
Jackson, Isaac & Co.,	290	1,290	1,290	1,290	1,290	1,290	1,290	1,290	1,290	1,290	1,290	lowes.	
Leanne L. E. A. Co.,	595	1,433	1,433			1,344	1,344	1,344	1,344	1,344	1,344	Emmett, jun.	
Morell, W. H.,	121	1,356	1,356	1,356	1,356	1,356	1,356	1,356	1,356	1,356	1,356		
McArrin, James,	634	1,046	1,046			1,619	1,619	1,619	1,619	1,619	1,619		
McDonnell, James,	529	1,619	1,619	1,619	1,619								
Morris, W. & Co.,	617					1,111	1,111	1,111	1,111	1,111	1,111	Geo. Low and M. C. Storey.	
McPharlin, P.,	640	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	Edward Dodd.	
Palmer, J. W.,	72	1,132	1,132			1,132	1,132	1,132	1,132	1,132	1,132	S. Belding, jun., and Alexander Ebbelton.	
Richardson, P. & Co.,	301	1,025	1,025			1,025	1,025	1,025	1,025	1,025	1,025	George Law and David Palmer.	
Reynolds, C. & Co.,	166	971	971	971	971	971	971	971	971	971	971		
Rogers, J. W.,	430	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156		
Story, M. C.,	504												

[illegible]

NAMES OF MIDDERS.		Sec. 112.	Sec. 117.	Sec. 118.	Sec. 119.	Sec. 120.	NAMES OF GUARANTY.	
Engineer's Estimate,		\$50,000	\$21,000	\$17,000	\$19,000	\$18,500	.....
139	Graham, G., O. Brewer, & O. A. Clark, .....	.....	17,560	16,672	15,805	20,012	John Palmer, A. Christman.	
112	Hart, Marshall,	29,565	20,531	18,720	17,866	18,841	S. Hart.	
9	Kimball, Woodman, W. Gawn, Nath'l Kingsley, E. S. Bangs, ..	20,140	18,480	16,948	17,594	18,729	Earl, Bangs, Howland, R. G. Savery.	
655	Lent, De Huron,	20,359	.....	.....	.....	.....	A. D. Barber.	
559	Myers, Austin, & W. Johnson, ..	19,407	.....	.....	.....	.....	D. Mason, C. Ellwood.	
623	Middler, C. C., N. Chase, J. Brintnall, P. Middler, L. J. Middler.	.....	14,135	13,202	13,353	16,292	S. Hart.	
15	Mills, T. G.,	19,924	16,154	15,192	16,109	16,000	H. Brintnall	
	Moss, J. B.,	21,879	19,754	18,567	18,124	18,829		
615	Myers, W E .....	.....	27,999	.....	.....	.....	S Brayton	
371	Morgan, P & Co .....	.....	18,553	16,037	14,703	15,650	C Crouse.	
	Marcellus & Cady, .....	.....	.....	.....	16,805	.....	Claimed by old contract.	
81	Newton, Wm. & Warren Newton, ..	28,886	28,839	24,697	23,342	24,433	I S Newton	
134	Olney, J, & John Brill, .....	.....	20,867	19,625	18,816	19,961	D Brill.	
353	Perkins, C. A.	39,904	.....	.....	.....	.....	J W Perkins. G Wiles.	
71	Palmer, David	21,487	20,337	17,316	18,080	19,276	G Law.	
211	Palmer, & J P Whipple	21,755	20,467	20,858	.....	.....
	Peck, Ithiel, .....	.....	.....	17,315	16,096	.....	C Secs, J I Wiles.	
400	Quackenbush, Isaac	16,687	17,955	17,299	16,190	.....	J A Sinter, H Huyke.	
574	Richman, T J, & F Morley	21,593	21,228	19,866	18,013	18,848	M. Butterfield.	

295	Richardson P & J & John Ray,...	19,409	18,701	17,310	17,746	16,078	G Strover & S A Dillingham.
788	Shippey J C.....	20,220	.....	.....	.....	.....	W C Champlin & J W Jones.
508	Story M C.....	21,159	20,837	17,318	18,086	19,226	G Law & D Palmer.
350	Schnyler N N.....	18,586	19,260	15,980	14,680	.....	A Ellwood.
563	Shippey N & C W White.....	17,265	16,289	15,182	14,544	15,189	J B Bradt & W Kimball.
162	Schuyler Aaron.....	14,659	16,135	15,607	15,350	15,925	N Rahner
11	Sage C H & A T Dunham.....	.....	22,875	21,407	20,745	21,645	L & R Ball.
476	Thompson Joseph.....	17,658	16,751	15,623	14,822	14,877	B Frazee & J O Frazee.
232	Vickerman C.....	19,324	.....	.....	.....	.....	Wm Johnson & John Golden.
243	Van De Bogart N, James E Van Horn & T Y Van De Bogart,...	21,037	20,692	18,999	18,523	.....	.....
12	Van De Bogart J Y.....	.....	.....	.....	.....	16,119	Claimed by old contract.
603	Van Vorst T B.....	23,552	22,088	21,356	26,838	26,098	T Van De Kar.
432	Van Horn C T E & Alva Ward.....	.....	20,995	19,050	18,890	19,935	H P Alexander & H Doolittle.
378	Wilcox Charles & Hessa Powell.....	.....	23,989	23,762	24,724	25,754	J B Wilcox & G Benedict.
340	Wilson James.....	19,370	.....	.....	.....	.....	J Hamilton & R Wilson.
191	Woodworth Samuel.....	22,232	.....	.....	.....	.....	W W Woodworth & M D Hollister.
203	Williams H E.....	.....	14,252	14,251	14,078	13,821	G W Wright & R Wilcox.
201	Williams L & H Candee.....	.....	13,560	14,558	13,478	14,353	S Hart.

ABSTRACT--(CONTINUED.)

No. of Bids	NAMES OF BIDDERS.		Sec. 121.	Sec. 122.	Sec. 125.	Sec. 126.	NAMES OF GUARANTY.
	Engineers' estimate,		\$18,600	\$15,000	\$29,500	\$24,200	
397	Allen Seabury and Chauncey C. Joslin,		.....	.....	25,955	23,317	Marcellus & Treslon, Joseph Blair.
	Adams, H., B. Sharpsteen, & H. W. Adams		19,236	15,859	30,307	26,980	Bissell, Langford, Mudge & Comstock.
183	Babcock, Oliver,		18,542	17,508	36,195	28,239	S Woodworth.
418	Borden, Joseph, & W. H. Bennett, .....		.....	.....	27,882	24,735	D Utley,
184	Barker, William, & Cephas Barker,		17,486	15,006	25,581	23,091	G W Baker, G Stevens.
535	Buel, Orson, .....		.....	.....	29,759	27,943	
229	Bloss, A., Geo. B. Phelps, & O. Barnes,		.....	.....	26,310	.....	John Vernon, William Barnes
198	Bennett, H. H., G. Kelsey, & E. Kelsey,		.....	.....	24,930	21,966	D W Stevens, W Norton.
698	Cronk, Hiram,		16,854	12,191	25,114	19,906	John Cronk, J B Bradt.
715	Candee, W. & Co., (See mechanical w'k.)		16,081	13,131	25,870	21,954	D Dennison, S Hart.
204	Crouse, Jacob, & Conrad Shoemaker,		15,376	13,401	23,338	21,446	H Rease, Levi Snell.
583	Coyle, Patrick H., & Joseph D. Gage,		12,178	9,712	19,355	17,295	W Palmer, M D Hollister.
691	Case, S, F M Lindleysee, & A M Farwell		.....	.....	29,000	24,646	E Farwell, C E Case.
124	Case, C G, & J W Baker, .....		.....	.....	29,590	25,568	I S T Stranahan.
262	DeGraw, Charles, J & Henry De Graw,		11,585	9,452	23,815	17,452	R C Kenyon.
194	Davison, John, .....		.....	13,469	25,506	22,465	T J Richman, Joseph Welling
186	Delong, Hiram, & Alfred Earle, .....		.....	.....	31,016	25,159	P R Root.
178	Ely, Erastus,		16,530	13,497	.....	.....	H Brayton, D Utley.
188	Elwood, Hiram, .....		.....	.....	24,945	.....	Reuben Ellwood, John Barhydt.
320	Elwood, Abraham, .....		.....	.....	27,890	.....	N. Schuyler.
578	Estabrook, Cheesbro, & H H Fish, .....		.....	.....	30,640	28,855	C G Case, G W Baker.
609	Fisher, T H, & Jacob Groat,		17,770	14,549	26,385	25,906	J E Whipple.
219	Frank, Wm. J, & James H Frank,		17,220	15,077	28,800	23,352	Hiram Delong, T Countryman.

710	Finne, A & H C Loonway.....	13,509	11,721	.....	.....	E Dorlon.
139	Graham, G, J Brewer & Ormond A Clark	18,845	15,472	34,385	27,824	John Palmer, A Christman.
112	Hart, Marshall.....	18,166	14,946	27,890	23,838	S Hart.
693	J Harrison, J Shields, Geo D Ransom & & H N Bill.....	.....	.....	29,000	25,592	W A Jacobs, E A Barber.
9	Kimball, W, W Gawne, Nath'l Kingsley & E S Bangs,.....	15,164	11,806	23,783	21,464	J D Earl, Bangs, Howland, & Savage.
	Kelsey, E N.....	.....	11,970	.....	.....	Claimed by old contract.
655	Lent, De Huron.....	.....	.....	22,875	31,610	A D Barber.
822	Loomis, L D, & Isaac W Brintnall,.....	.....	.....	31,285	23,673	J D Norton.
559	Myers, A & W Johnson,.....	.....	.....	27,548	23,742	D Mason & C Ellwood.
623	Middler, C C, N Chase, J. Brentnall, P Middler & L J Middler.....	.....	.....	.....	.....	.....
15	Mills, T G.....	16,454	13,433	23,644	20,904	S Hart.
	Moss, J B.....	16,044	13,461	26,555	22,000	H Brintnall.
371	Morgan, P & Co.....	17,684	14,346	30,725	25,302	.....
190	Matteson, Simon.....	16,903	13,680	25,920	23,173	C Crouse.
81	Newton, W & Warren Newton.....	.....	.....	26,110	24,135	A C Cromwell.
	Natross, J W.....	23,413	18,872	38,250	32,452	I S Newton.
	Olney, J & John Brill.....	14,060	.....	.....	.....	Claimed by old contract.
134	Palmer, David.....	18,718	15,197	30,503	24,703	D Brill.
71	Palmer, ——— & J P Whipple.....	17,611	14,463	28,460	23,563	G Law.
211	Pringle, J & Patrick Gilboy.....	.....	.....	31,330	28,789	.....
782	Quackenbush Isaac.....	.....	.....	21,658	20,656	S Miller & J Duff.
400	Richardson, T J & F Mosley.....	.....	.....	26,875	.....	J A Sinter & H Huyke.
574	Rasback, J A & H Eysaman.....	17,888	14,874	26,290	21,723	M Butterfield.
995	Richardson, P, J Richardson & John Ray	15,541	12,639	24,345	23,481	G Strover & S A Dillingham.
282	Rasback, J A & H Eysaman.....	.....	.....	21,664	18,420	G Rasbeck & C Gray.

ABSTRACT—(CONTINUED.)

No. of Bill	NAMES OF BIDDERS.	Sec. 121.				Sec. 122.				Sec. 123.				Sec. 124.				NAMES OF GUARANTY.
		\$18,500				\$15,000				\$23,500				\$24,200				
397	Engineers' estimate,.....	19,236	15,859	30,307	26,980	18,542	17,508	36,195	28,239	27,882	24,735	25,581	23,091	29,759	27,943	26,310	24,930	John Vernon, William Barnes
397	Allan Schaner and Chauncey C. Joslin, steen, & H. W. Adams	16,854	12,191	25,114	19,906	16,081	13,181	25,870	21,954	23,338	21,446	29,000	24,646	29,590	25,568	29,590	25,568	D W Stevens, W Norton.
18	.....	16,854	12,191	25,114	19,906	16,081	13,181	25,870	21,954	23,338	21,446	29,000	24,646	29,590	25,568	29,590	25,568	John Cronk, J B Bradt.
41	J. H. Bennett,.....	15,376	13,401	23,338	21,446	12,178	9,712	19,355	17,295	29,000	24,646	29,590	25,568	29,590	25,568	29,590	25,568	D Dennis, S Hart.
18	Cephas Barker,.....	12,178	9,712	19,355	17,295	11,585	9,452	23,815	17,452	25,506	22,465	31,016	25,159	31,016	25,159	31,016	25,159	H Rease, Levi Snell.
585	Buel, Orson,.....	11,585	9,452	23,815	17,452	11,585	9,452	23,815	17,452	25,506	22,465	31,016	25,159	31,016	25,159	31,016	25,159	W Palmer, M D Hollister.
229	Bloss, A., Geo. B. Phelps, & O. Barnes,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	E Farwell, C E Case.
198	Bennett, H. H., G. Kelsey, & E. Kelsey,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	I S T Stranahan.
698	Cronk, Hiram,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	R C Kenyon.
715	Candee, W. & Co., (See mechanical w'k.)	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	T J Richman, Joseph Welling
204	Crouse, Jacob, & Conrad Shoemaker,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	P R Root.
583	Coyle, Patrick H., & Joseph D. Gage,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	H Brayton, D Utley.
691	Case, S, F M Lindleysee, & A M Farwell	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	Reuben Ellwood, John Barhydt.
124	Case, C G, & J W Baker,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	N. Schuyler.
262	DeGraw, Charles, J & Henry De Graw,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	C G Case, G W Baker.
194	Davison, John,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	J E Whipple.
186	Delong, Hiram, & Alfred Earle,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	Hiram Delong, T Countryman.
178	Ely, Erastus,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	
188	Elwood, Hiram,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	
320	Elwood, Abraham,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	
578	Estabrook, Cheesbro, & H H Fish,.....	16,530	13,497	24,945	21,890	16,530	13,497	24,945	21,890	27,890	24,945	27,890	24,945	27,890	24,945	27,890	24,945	
609	Fisher, T H, & Jacob Groat,.....	17,770	14,549	26,385	25,906	17,770	14,549	26,385	25,906	26,385	25,906	26,385	25,906	26,385	25,906	26,385	25,906	
219	Frank, Wm. J, & James H Frank,.....	17,220	15,077	28,800	23,352	17,220	15,077	28,800	23,352	28,800	23,352	28,800	23,352	28,800	23,352	28,800	23,352	

710	Finne, A & H C Loonway	13,509	11,721	.....	.....	E Dorlou.
139	Graham, G, J Brewer & Ormond A Clark	18,845	15,472	34,385	27,824	John Palmer, A Christman.
112	Hart, Marshall	18,166	14,946	27,890	23,838	S Hart.
693	J Harrison, J Shields, Geo D Ransom & & H N Bill .....	.....	.....	29,000	25,592	W A Jacobs, E A Barber.
9	Kimball, W, W Gawne, Nath'l Kingsley & E S Bangs,	15,164	11,806	23,783	21,464	J D Earl, Bangs, Howland, & Savage.
	Kelsey, E N .....	.....	11,970	.....	.....	Claimed by old contract.
655	Lent, De Huron .....	.....	.....	22,875	31,610	A D Barber.
822	Loomis, L D, & Isaac W Brintnall, .....	.....	.....	31,285	23,673	J D Norton.
559	Myers, A & W Johnson, .....	.....	.....	27,548	23,742	D Mason & C Ellwood.
623	Middler, C C, N Chase, J. Brentnall, P Middler & L J Middler	16,454	13,433	23,644	20,904	S Hart.
15	Mills, T G	16,044	13,461	26,555	22,000	H Brintnall.
	Moss, J B	17,684	14,346	30,725	25,302	.....
371	Morgan, P & Co	16,903	13,680	25,920	23,173	C Crouse.
190	Matteson, Simon .....	.....	.....	26,110	24,135	A C Cromwell.
81	Newton, W & Warren Newton	23,413	18,872	38,250	32,452	I S Newton.
	Natcross, J W	14,060	.....	.....	.....	Claimed by old contract.
134	Olney, J & John Brill	18,718	15,197	30,503	24,703	D Brill.
71	Palmer, David	17,611	14,463	28,460	23,563	G Law.
211	Palmer, — & J P Whipple .....	.....	.....	31,330	28,789	.....
782	Pringle, J & Patrick Gilboy .....	.....	.....	21,658	20,656	S Miller & J Duff.
400	Quackenbush Isaac .....	.....	.....	26,875	.....	J A Sinter & H Huyke.
574	Richmond. T J & F Mosley	17,888	14,874	26,290	21,728	M Butterfield.
595	Richardson, P, J Richardson & John Ray	15,541	12,639	24,345	23,481	G Strover & S A Dillingham.
282	Rasback, J A & H Eysaman .....	.....	.....	21,664	18,420	G Rasbeck & C Gray.

ABSTRACT--(Continued.)

NAMES OF BIDDERS.		Sec. 121.	Sec. 122.	Sec. 123.	Sec. 126.	NAMES OF GUARANTY.
Engineers' estimate,.....		\$18,600.	\$15,000.	\$29,500.	\$21,200.	
279	Rasback, J M, F Rose & G Rasback.....	.....	.....	21,664	18,420	P Remington.
788	Shippey, J C .....	.....	.....	26,278	22,293	W C Champlin & J. W Jones.
503	Story, M C.....	17,657	14,563	28,340	23,588	G Law & D Palmer.
350	Schuyler, N N.....	.....	.....	29,050	.....	A Ellwood.
563	Shippey, N & C W White.....	14,469	11,851	25,045	.....	J B Bradt & W Kimball.
162	Schuyler, Aaron.....	16,282	12,960	26,240	.....	N Schuyler.
11	Sage, C H & A T Dunham.....	20,445	16,712	37,775	29,309	L McChesney & R Ball.
586	Stanbury, E.....	.....	.....	26,730	21,810	A H Shults.
145	Stimson, S W, J D Mack & B U Caswell	.....	.....	24,513	29,337	See lock proposal.
476	Thompson, Joseph	14,651	11,199	23,727	18,741	B Frazee & J O Frazee.
425	Tupper, H N.....	.....	.....	30,100	23,590	E N Kelsey & H Bennet.
250	Utley, Squire.....	.....	.....	27,470	24,371	P V Kellogg.
243	Van De Bogart, N, J E Van Horn & J Y Van De Bogart.....	17,232	14,065	27,950	24,917	
12	Van Vorst, T B.....	25,448	20,461	38,245	33,986	
603	Van Der Karr	18,745	15,305	33,305	26,300	T Van Der Karr.
432	Van Horn, C T E & Alva Ward.....	20,264	18,816	28,120	31,354	H P Alexander & H Doolittle.
378	Wilcox, Charles & Hosea Powell .....	.....	.....	26,350	21,517	J B Wilcox & G Benedict.
191	Woodworth, Samuel.....	.....	.....	38,597	30,008	W W Woodworth & M D Holster.
203	Williams, H E.....	14,725	11,414	23,723	18,138	G W Wright & H Wilcox.
201	Williams, L & Horace Candee	13,763	11,532	20,760	18,807	S Hart.
723	Wiles, J I.....	.....	.....	24,570	17,424	G P Vanalstine, M L Harris & Easton.

33	Walrath J J, H Brown, J L Bebee, G E				
	Downer, J W Bebee, J Harbottle, W				
	H Walrath.....	29, 103	24, 016	A P Downer & L Bebee.	
557	White, C. W., Pardon H Griswold, .....	.....	25, 740	J B Bradt & W Kimball.	

ABSTRACT—(CONTINUED.)

	NAMES OF BIDDERS.		Sec. 127.	Sec. 128.	Sec. 129.	Sec. 130.	NAMES OF GUARANTY.
	Engineers estimate,		\$27,900.	\$24,800	\$27,800	\$26,500	
397	Allen, Seabury & C C Joslin.....		27,360	25,471	25,062	23,945	Marcellus & Treslon, & Joseph Blair.
	Adams, Horace, Sharpsteen & Adams,		32,270	30,371	25,053	24,518	Bissell, Langford, Mudge & Comstock.
183	Babcock, Oliver,.....		30,675	.....	30,007	27,284	S Woodworth.
418	Borden, Joseph & Willard H Bennett ..		27,228	24,114	23,646	21,304	D Utley.
184	Barker, Wm & Cephas Barker		29,395	23,146	30,098	26,285	G W Barker & G Stevens.
428	Bates, T H.....		28,030	24,667	27,831	.....	A Rae & A D Barber.
535	Buel, Orson.....		25,043	29,080	34,352	32,171	
198	Bennett, H H, G Kelsey & E Kelsey, ..		33,655	22,705	22,282	20,352	D W Stevens & W Norton.
698	Cronk, Hiram.....		22,301	18,213	21,448	23,767	John Cronk & J B Bradt.
715	Candee, W & Co, (see mechanical work,)		23,755	20,559	22,862	23,987	D Dennison & S Hart.
204	Crouse, J & C Shoemaker.....		25,235	18,662	23,419	21,764	H Rease & Levi Snell.
691	Case, S F, M Lindleysee & A M Farwell		28,000	25,336	28,371	26,853	F Farwell & C E Can.
124	Case, C G & J W Baker,.....		29,690	25,552	28,722	27,927	I S T Stranahan.
262	De Graw, C J & Henry De Graw		17,425	15,453	17,420	16,765	R C Kenyon.
194	Davison, John		25,290	22,550	24,926	24,716	T I Richman & Joseph Welling.
186	Delong, Hiram & Alfred Earle.....		30,876	24,017	.....	.....	P R Root.
188	Elwood, Hiram.....		.....	.....	.....	19,110	Reuben Elwood & John Barhydt.
320	Elwood, Abraham .....		.....	.....	.....	19,328	N Schuyler.
578	Estabrook, T D, Tho's M Cheesbro &		.....	.....	.....	.....
	H H Fish.....		33,830	30,255	33,006	30,031	C G Case & G W Baker.
609	Fisher, T H & Jacob Groat.....		29,555	32,948	42,293	30,070	J E Whipple.
219	Frank, Wm J & James H Frank.....		26,767	23,332	26,830	24,415	Hiram Delong & T Countryman.

Loonway,	82, 180	23, 859	27, 294	22, 802	E Dorlon.
er & O A Clark,	32, 595	28, 186	33, 085	30, 391	John Palmer & A Christman.
.....	24, 210	20, 078	23, 297	21, 356	S Hart.
.....	.....	.....	24, 874	21, 766	N Dorlon & W Sippell.
ne, N Kingsley &	25, 152	18, 060	20, 517	20, 975	Earl, Bangs, Howland & Savary.
.....	28, 720	47, 252	45, 633	.....	.....
.....	47, 055	.....	32, 098	28, 731	A D Barber.
W Brintnall,	24, 665	22, 458	24, 106	24, 101	J D Norton.
Michael Murphy, .....	.....	.....	22, 578	16, 933	.....
ohnson,	27, 520	23, 257	26, 964	26, 439	D Mason & C Ellwood.
se, J Brintnall, P	28, 370	23, 120	25, 750	20, 098	S Hart.
iller,	22, 260	20, 469	22, 150	22, 727	H Brintnall.
.....	30, 990	23, 746	24, 302	22, 547	.....
.....	27, 062	31, 938	27, 980	26, 192	C Crouse.
.....	33, 800	26, 404	30, 043	29, 313	A C Cromwell.
Warren Newton,	34, 665	30, 952	26, 773	24, 703	I S Newton.
.....	27, 099	24, 758	27, 217	26, 600	D Brill.
.....	25, 880	21, 899	25, 531	27, 221	G Law.
rick Gilboy, .....	.....	.....	20, 051	18, 886	S Miller & J. Duff.
.....	.....	.....	.....	18, 150	J A Sinter & H Huyke.
k Morley,	24, 435	22, 893	24, 861	26, 066	M Butterfield.
295 Richardson, P, J Richardson & J Ray,	27, 370	24, 836	25, 867	22, 875	G Strover & S A Dillingham.
282 Rasback, J A, & Henry Eysman,	24, 960	21, 390	29, 305	24, 086	G Rasback & C Gray.
279 Rasback, J M, F Rose & Geo. Rasback,	24, 880	19, 278	27, 498	22, 528	P Remington.
788 Shippy, J C,	24, 835	.....	.....	.....	W C Champlin & J Wyman Jones.

ABSTRACT—(CONTINUED.)

NAMES OF BIDDERS.		Sec. 127.	Sec. 128.	Sec. 129.	Sec. 130.	NAMES OF GUARANTY.
Engineers' estimate,		\$27,900.	\$24,800	\$27,800	\$26,500	
503 Story, M. C. ....	.....	25,880	21,949	25,556	27,246	G Law & D Palmer.
350 Schnuyler, N N. ....	.....	.....	.....	.....	20,838	A Ellwood.
162 Schnuyler, Aaron .....	.....	.....	.....	21,970	17,890	N Schnuyler.
11 Sage, C H & A T Dunham .....	.....	30,985	28,800	21,210	29,737	L McChesney & R Ball.
566 Stanbury, E. ....	.....	24,889	22,232	25,710	22,495	A H Shurts.
145 Stimson, S W, J D Mack & B U Caswell	.....	27,925	29,462	34,978	28,068	See lock proposal.
476 Thompson, Joseph .....	.....	42,759	22,305	20,179	19,383	B Frazee & J O Frazee.
425 Tupper, H N. ....	.....	28,010	24,415	24,480	23,245	E N Kelsey & H Bennett.
250 Utley, Squire .....	.....	30,290	26,317	30,188	27,566	P V Kellogg.
243 Van De Bogart, N, J E Van Horn, & J Y Van De Bogart .....	.....	30,635	25,549	26,704	24,274	
603 Van De Kar .....	.....	25,680	23,740	26,320	26,905	T Van De Kar.
378 Wilcox, Charles & Moses Powell .....	.....	24,380	21,720	25,205	21,960	J B Wilcox & G Benedict.
191 Woodworth, Samuel .....	.....	41,845	30,463	38,551	31,626	W W Woodworth, & M D Hollister.
203 Williams, H E. ....	.....	33,140	19,388	23,115	20,199	G W Wright & R Wilcox.
201 Williams, Lucien & Horace Candee,....	.....	32,200	19,760	21,808	16,609	S Hart.
723 Wiles, J F. ....	.....	21,188	20,678	21,226	21,969	G P Vanalstine, Harris & Easton.
33 Walrath, J J, H Brown, J L Bebee, G E Downer, J W Bebee, J Harbottle & W H Walrath .....	.....	28,870	22,416	22,599	10,424	A P Downer & L Bebee.
567 White, C W & P H Griswold .....	.....	28,040	21,676	24,387	24,687	J B Bradt & W Kimball.
93 White, H, J F Muntley & C Frazee .....	.....	.....	.....	23,017	23,443	B Frazee, A Briggs & O Clark.

ABSTRACT—(CONTINUED.)

NAMES OF BIDDERS.		NAMES OF BIDDERS.			
Engineers' estimate,		Sec. 133.	Sec. 134.		
		\$21,700	\$17,400		
710 Finne Alvinza, & Hardy C Loonway, ..	15,938	17,832	16,802	E Dorlon.	
10 Foster Julius C & Orson Foster,	21,909	25,066	21,854	G Stone.	
239 Frazee Silas,	15,395	17,604	15,132	Charles Vrooman, S P Marsh.	
364 Farquharson James, .....	.....	.....	23,099	20,063	
139 Graham G Jas Brewer, & O A Clark, ..	21,105	25,456	25,745	20,905	John Palmer, A Christman.
112 Hart Marshall,	17,027	20,001	20,125	17,551	S Hart.
591 Joslin B B.,	16,826	20,184	.....	.....	N Joslin, W Sippell.
9 Kimball W. W Gawne, Kingsley & Bangs, ..	15,236	17,735	17,359	14,692	Earl, Bangs, Howland & R G Savary.
439 Kingsley, Leonard,	17,838	.....	.....	.....	J F Huntley.
655 Lent, De Huron,	21,016	25,856	23,341	18,821	A D Barber.
822 Loomis, L, D & I W Brintnall,	18,683	21,026	21,740	17,711	J D Norton.
380 Lannigan, James, & Michael Murphy, ..	14,330	16,348	26,959	13,819	
559 Myers, Austin, & W Johnson,	18,808	21,334	21,236	19,058	D Mason, C. Elwood.
623 Middler, C C, N Chase, J Brintnall, P Middle, & L I Middler,	16,475	19,084	19,205	15,583	S Hart.
15 Mills, T G.,	16,381	19,262	.....	.....	H Brintnall.
Moss, J B.,	17,383	20,337	21,612	17,001	
371 Morgan, P & Co.,	17,121	20,282	17,978	16,060	C Crouse.
190 Matteson, Simon,	19,594	23,725	23,765	18,989	A C Cromwell.
81 Newton, Wm., & Warren Newton,	21,078	21,088	21,268	12,828	J S Newton.
184 Olney, J, & John Brill,	19,569	21,534	21,847	19,160	D Brill.
71 Palmer, David,	17,679	20,196	21,844	17,266	G Law.

Whipple.	.....	.....	.....	.....	21,460	S Miller, J Duff.
& Patrick Gilboy.	.....	.....	.....	17,663	15,558	J A Sinter, H Huyck.
Iaac,.....	.....	.....	.....	18,360	14,663	M Butterfield.
J & F Morley.	19,600	22,566	22,027	19,417	15,724	G Strover, S A Dillingham.
Richardson, & J Ray,	17,948	20,908	20,041	15,724	18,046	T C Hall, P V Kellogg.
.....	18,784	21,911	22,025	18,046	17,291	G
.....	17,679	20,271	21,394	17,291	16,142	A Ellwood.
.....	.....	.....	.....	16,142	13,058	J B Bradt, W Kimball.
& Charles W White, ..	14,597	17,452	16,505	15,368	12,873	N Schnyler.
.....	.....	.....	.....	16,226	23,248	L McChesney, R Ball.
Dunham,	22,039	25,602	25,576	23,248	21,685	See lock proposal.
D Mack, B U Caswell, ..	19,242	25,913	28,051	21,685	13,597	B Frazee, J O Frazee.
ph,.....	14,196	17,115	16,614	13,597	18,730	E N Kelsey, H. Bennett.
.....	18,360	21,525	21,523	18,730	.....	.....
J E Van Horn, & J Y	.....	.....	.....	.....	.....	.....
.....	18,091	20,517	20,718	16,935	.....	.....
.....	19,960	22,865	23,725	20,360	.....	T Van De Karr.
, & Hosea Powell,.....	16,532	18,415	18,685	16,622	.....	J B Wilcox, G Benedict.
nel,	21,755	25,931	25,925	22,622	.....	W W Woodworth, M D Hollister.
.....	14,443	16,185	16,021	11,752	.....	G W Wright, R Wilcox.
Horace Candee,	14,077	15,708	15,130	12,974	.....	S Hart.
.....	16,866	19,338	19,682	16,424	.....	G P Vanalstine, Harris & Easton.
Brown, James L Bebee,	.....	.....	.....	.....	.....	.....
er, John W Bebee, Jos.	.....	.....	.....	.....	.....	.....
W H Walrath,	15,523	17,506	18,405	14,978	.....	A P Downer, L Bebee.

EASTERN DIVISION.

Abstract of propositions for mechanical work, Western sub-division.

Valve gates.	Rope Feeder.		NAMES OF GUARANTY.
	Dam across Mohawk.	Feeder & bulk-head.	
\$1,650	\$8,500	\$3,500	
.....	.....	.....	Woodman Kimball, R. G. Savary.
.....	.....	.....	H. P. Alexander, W. J. Skinner.
.....	\$7,934	.....	D. Utley, J. Morris.
.....	.....	.....	J. Knickerbocker.
.....	.....	.....	F. E. Spinner, M. Shoemaker, R. Ethridge
.....	8,098	.....	David Utley.
.....	.....	.....	L. Birdwell.
.....	.....	.....	M. S. Fitch.
.....	.....	.....	Guffereas Selber, J. Edick.
.....	.....	.....	W. Usher, H. Caswell.
.....	.....	.....	R. ..
.....	.....	.....	I. Devendorf.
.....	.....	.....	P. Alexander.
.....	.....	.....	B. Devendorf.
.....	.....	.....	Jedd, M. McQuade.
.....	.....	.....	resc.
.....	.....	.....	N. ..
.....	.....	.....	J. B. T. Stranahan.
.....	.....	.....	N. N. Schuyler.
.....	.....	.....	J. O. Frazee, C. Vroman, P. Ostrander.
.....	7,334	\$3,531	J. E. Whipple.
.....	.....	.....	H. Evans, J. Peters.
.....	.....	.....	H. P. Alexander, G. H. Foster.
.....	.....	.....	Jones & Fenton.
.....	7,755	3,038	H. L. Howland, R. O. Savary.
.....	.....	.....	M. Dunlop, T. Clowes.
.....	10,370	4,571	A. D. Barber, S. Van Drenar.
.....	.....	.....	(See sections.)

560	26,102	26,149	27,100	.....	.....	.....	.....	.....	C. Elwood, D. Mason.
641	23,739	23,844	23,800	.....	.....	.....	.....	.....	H. Swan, H. Brinton, E. Powers.
672	32,890	32,422	31,770	.....	.....	.....	.....	.....	E. P. Cowles.
694	.....	.....	.....	.....	.....	.....	8,040	3,403	S. Adams, E. Seymour.
82	27,332	25,607	26,347	.....	.....	.....	.....	.....	J. S. Newton, L. Newton.
523	37,250	37,116	35,086	.....	.....	.....	.....	.....	J. P. Rathbone.
815	.....	.....	.....	.....	.....	.....	14,835	6,635	A. P. Downer.
576	27,500	.....	27,650	.....	.....	.....	.....	.....	C. Johnson, C. A. Griffith, V. Owens, E. Green.
630	.....	.....	.....	.....	.....	.....	.....	.....	J. Roy, A. Dunlop.
630	.....	.....	.....	.....	.....	.....	1,231	.....	C. E. Lansing, W. W. Frothingham.
833	.....	.....	.....	.....	.....	.....	1,654	.....	N. J. Beach, D. Utley.
105	.....	.....	.....	.....	.....	.....	.....	8,674	.....
208	24,764	23,479	25,957	.....	.....	.....	.....	.....	Edward Dodd.
200, 203	31,100	24,267	23,917	.....	.....	.....	.....	.....	S. Voorhees, D. J. McMartin.
277	24,174	24,695	25,191	.....	.....	.....	7,969	3,540	G. Storer, T. M. Dillingham.
6	27,309	25,942	26,272	.....	.....	.....	.....	.....	P. Remington, C. Gray.
258	28,748	27,873	27,448	.....	.....	.....	.....	.....	W. C. Champion, J. Wyman Jones, J. S. Ray.
273	33,139	32,664	32,124	.....	.....	.....	.....	.....	H. Caswell, F. P. Ballinger, E. Graves, J. A.
321	26,764	26,289	25,679	.....	.....	.....	.....	.....	A. Belden, jr., A. Shelden.
394	26,331	25,673	26,503	.....	.....	.....	.....	.....	A. Elwood.
435	28,953	26,182	28,893	.....	.....	.....	.....	.....	T. Countryman.
464	27,980	27,526	27,037	.....	.....	.....	.....	.....	M. E. Luddington, J. B. Vanderwerkin.
564	20,328	20,763	20,006	.....	.....	.....	.....	.....	E. Eldridge, T. Wood.
500	21,351	20,926	20,561	.....	.....	.....	.....	.....	G. K. Brown, J. B. Bradt.
170	30,143	29,450	29,211	.....	.....	.....	.....	.....	G. Law, D. Palmer.
680	.....	26,161	.....	.....	.....	.....	.....	.....	J. Burgess, W. Hall.
430	.....	.....	.....	.....	.....	.....	.....	.....	H. Seymour, T. B. Clark.
117	29,783	29,268	28,668	.....	.....	.....	1,513	.....	G. Kennedy, A. Peck, R. R. Kennedy.
303	24,634	.....	.....	.....	.....	.....	1,566	.....	E. N. Kelsey, H. Bennett.
35	25,417	25,564	26,255	.....	.....	.....	.....	.....	H. Caswell, W. J. Skinner.
70	32,334	32,510	32,921	.....	.....	.....	.....	.....	W. H. Hill.
244	30,127	36,447	37,657	.....	.....	.....	.....	.....	B. Marshall, J. A. Orlowold.
233	33,802	33,679	33,136	.....	.....	.....	.....	.....	T. Van Der Karr, B. Powers.
84	25,540	24,686	26,494	.....	.....	.....	.....	.....	.....
92	.....	.....	.....	.....	.....	.....	9,621	.....	W.
223, 723	26,806	26,647	27,652	.....	.....	.....	.....	.....	J.
197, 198	28,754	28,683	29,769	.....	.....	.....	9,917	.....	T.
	.....	.....	.....	.....	.....	.....	19,955	5,748	G.
	.....	.....	.....	.....	.....	.....	.....	.....	W.

M. Richmond
Boston.
Holmes.

PROPOSALS--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	LOOKS EIGHT FEET LIFT.			Gate Price.	ROME FEEDER.		NAMES OF GUARANTY.
		LOOKS EIGHT FEET LIFT.				Dam across Mohawk	Feeder across and bulk head.	
		No. 40.	No. 41.	No. 42.				
	Engineers' estimate,.....	\$27,500	\$26,700	\$27,000	\$1,050	\$9,500	\$3,500	

PROPOSALS—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.		CULVERTS.								NAMES OF GUARANTY.	
	Engineers' estimate,		Square stone on sec. III.	Composite on sec. III & 12.	Composite, 3 spaces 2 1/2 x 2, sec. 118 & 20.	Composite 2 x 2, section 126.	Stone arch, 4 feet chord, section 127.	Composite 3 x 2, section 128.	Stone arch, 12 feet chord, section 129.			
420, 196,	Borden, Joseph, Willard Bennett,	1,354	1,764							D. Utley, J. Morris.		
	Bennett, H. H., Grove Kelsey, Ekha N. Kelsey,											
605,	Farwell, Samuel,					830	2,276	733	5,962	D. W. C. Stephens, W. Norton, A. C. Skaden.		
	Fisher, T. H. & Jacob Gruat,	1,330	1,810	2,368	906	2,077	2,512	761	5,781	J. S. T. Stranahan.		
782,	Lent, De Huron,	1,511	1,885	2,656	978	2,396			4,548	J. E. Whipple.		
440,	Pringle, James & Patrick Gilboy,								5,798	A. D. Barber, S. Van Drosar.		
261, 138,	Shippy, J. C.,	1,482	1,763						5,758	S. Miller, J. Duff.		
	Stimson, S. W., Josiah D. Mack, Bloomfield U. Caswell,									W. C. Champlin, J. Wynan Jones, J. S. Ray.		
602,	Storey, M. O.,	1,584	1,983	2,685	1,186	3,026	930		6,508	H. Caswell, Bellinger, Graves, Laffin, and Sinter.		
588,	Stansbury, E.,				1,162				6,951	G. Law, D. Palmer.		
	Tupper, H. N.,				955	3,188	825		7,395	A. H. Shults.		
602,	Van Der Karr, Leonard, & Patk. Lavin,								6,096	E. N. Kelsey, H. Bennett.		
247,	Van De Bogart, N., James E. Van Horn, J. Y. Van De Bogart,			3,023	1,076	2,837	890		6,746	T. Van Der Karr, R. Powers.		
	Van Vorst, J. B.,	1,854	2,526	3,045	1,349	3,495	1,150		5,946	P. Potter, H. C. Van Vorst.		
638	Wiles, David, G. P. Van Alstine, & Truman W. Richards,	2,297	2,729									
213	Whipple, J. P. & William Chrisman,	1,392	1,867	2,470	1,052	2,653	872		6,017	M. L. Harris, J. H. Raster, J. I. Wiles.		
				1,957	804	2,164			5,021	J. Palmer, D. O. Ballis.		

PROPOSALS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	LOOKS EIGHT FEET LIFT.			Valve gates.	ROME FEEDER.		NAMES OF GUARANTY.
		No. 40. No. 41. No. 42.				Dam across Mohawk.	Feeder and bulk head.	
		No. 40.	No. 41.	No. 42.				
	Engineers' estimate,.....	\$27,500	\$26,700	\$27,000	\$1,650	\$8,500	\$3,500	
389	Wilcox, Charles, & Hoses Powell,	33,593	27,038	32,413	.....	.....	.....	J. B. Wilcox, G. Benedict.
193	Woodworth, Samuel, .....	.....	24,457	26,872	.....	.....	.....	J. Pierce, C. A. Bronson.
171	Whittlesey, John, .....	.....	.....	.....	.....	6,968	3,147	L. R. Lyons.
212	Whipple, J. P., & William Chrisman, .....	.....	.....	.....	.....	8,987	.....	D. C. Balis, J. Palmer.
101	Yates, Andrew J., .....	.....	.....	.....	.....	9,053	.....	E. Allen, C. C. Joslin.
507	Kason, J. M., & Arthur Lewis,	24,847	24,387	26,637	.....	.....	.....	Charles A. Wheaton.

PROPOSALS—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	COLUMNS.							NAMES OF GUARANTY.
		Square stone on rec. 111.	Composite on sec. 111 & 12.	Composite, 8 spaces 2x2, sec. 116 & 20.	Composite 2x2, section 126.	Stone arch 4 feet chord, section 127.	Composite 2x2, section 128.	Stone arch 12 feet chord, section 129.	
426, 196,	Engineers' estimate,	\$1,330	\$1,900	\$2,860	\$1,000	\$2,210	\$660	\$5,200	
421 197	Borden, Joseph, Willard Bennett,	1,354	1,764	.....	.....	.....	.....	.....	D. Utley, J. Morris.
605,	Bennett, H. H., Grove Kelsoy, E. H. N. Kelsoy, .....	.....	.....	.....	.....	.....	.....	.....	D. W. C. Stephens, W. Norton, A. C. Shaden.
781	Farwell, Samuel, .....	.....	.....	.....	880	2,276	.....	6,962	J. B. T. Stranahan.
608	Fisher, T. H. & Jacob Grant,	1,330	1,910	2,308	905	2,512	733	6,781	J. E. Whipple.
657	Lent, De Haron,	1,511	1,885	2,656	978	2,396	751	4,548	A. D. Barber, S. Van Dresser.
782	Pringle, James & Patrick Gilboy, .....	.....	.....	.....	.....	.....	.....	5,798	S. Miller, J. Duff.
440, 263	Shippy, J. C.,	1,482	1,768	.....	.....	.....	.....	5,758	W. C. Champion, J. Wymen Jones, J. S. Ray.
261, 136, 136	Stinson, S. W., Josiah D. Mack, Bloom- field U. Osawell, .....	.....	1,961	2,683	1,186	3,026	930	6,508	H. Osawell, Bellinger, Graves, Laffin, and Sinter.
602, 563,	O.,	1,584	1,983	.....	1,162	.....	.....	6,961	G. Law, D. Palmer.
602, 247,	R., .....	.....	.....	.....	955	3,188	825	7,395	A. H. Shultz.
	N., .....	.....	.....	.....	.....	.....	.....	6,096	R. N. Kelsey, H. Bennett.
	arr, Leonard, & Park, Laviu, gart, N., James E. Van Horn, in De Bogart, .....	.....	.....	3,023	1,076	2,837	890	6,746	T. Van Der Karr, R. Powers.
	J. B.,	1,934	2,526	3,045	1,249	3,490	1,150	6,946	P. Potter, H. O. Van Vorn.
634	Wiles, David, G. P. Van Alstine, & Tru- man W. Richards,	2,297	2,722	.....	.....	.....	.....	.....	M. L. Harris, J. H. Raster, J. I. Wiles.
213	Whipple, J. P. & William Christman,	1,392	1,867	2,470	1,052	2,658	872	6,017	J. Palmer, D. O. Ellis.
		.....	.....	1,957	804	2,164	.....	5,021	

PROPOSALS—(CONTINUED.)

No. of Proposition.	NAMES OF BIDDERS.	CULVERTS.					WASTE WEIRS.			NAMES OF GUARANTY.
		4 feet, arch, section 180.	Composite, 2x2, section 130.	2 composite, 2x2, sec. 131 & 32.	2 composite, 2 spaces 2x2, sec. 133 & 34.		Section 120.	Section 127.	Section 134.	
	Engineers' estimate,	\$2,210	\$1,000	\$2,520	\$2,360		\$3,750	\$3,750	\$3,750	
196, 197	Benpett, H. H., Grove, Kelsey, E. N. Kelsey,									D. W. C. Stephens, W. Norton, A. C. Skaden.
561, 566	Ball, J. P. & Wm. M. Hill,									J. Bouton, E. Dorlon.
725	Davis, Naaman,						5,564	5,564	5,564	A. D. Barber, P. V. Kellogg.
275	Farwell, Samuel,									J. S. T. Stranahan.
184	Frasco, B.,	2,412	680	2,498	2,384					J. O. Frisco, C. Vrooman, P. Ostlander.
605, 608	Fisher, T. H. & Jacob Groat,									J. E. Whipple.
624, 407	Kimball, Weedman, W. Gawn, N. Kingsley,	1,992	904	2,354	2,368		3,741	3,741	3,741	
	Ely T. Bangs,									
657	Lent, De Huron,						4,061	3,859	3,944	W. L. Howland, R. G. Savary.
612, 613	Rae, Alexander,	288	843	2,828	2,775					A. D. Barber, S. Van Dresar.
261, 186, 186	Stimson, S. W., Josiah D. Mack, Bloomfield,									T. G. Holley, P. V. Kellogg.
	U. Caswel,									
503, 504		2,841	1,043	2,936	2,965		4,423	4,423	3,948	H. Caswell, Bellinger, Graves, Laffin and Sinter.
588, 587		2,570	866	2,852	2,671		4,129	4,104	4,079	G. Law, D. Palmer.
602, 68	ward & Patrick Levin,	3,122	955							A. H. Shultz.
47, 49	, James E. Van Hurt, J.	2,727	1,676	3,040	3,028					T. Van De Kart, R. Powers.
	, David Willes & Truman									
632		2,726	1,133	2,991	3,001		3,822	3,837	3,837	
633	P. Van Alstyne & Truman						4,280	4,280	4,280	M. L. Harris, J. H. Raster, J. I. Willes.
	W. Richards,									
218	Whipple, J. P. & William Christman,	2,443	962	2,478	2,430					M. L. Harris, J. H. Raster, J. I. Willes.
		2,142	834	2,238	2,356					J. Palmer, D. C. Bell.

PROPOSALS—(CONTINUED.)

No of Proposition.	NAMES OF BIDDERS.	BRIDGE ADJUSTMENTS.						NAMES OF GUARANTY.
		Between Utica and Frankford.	Road bridge on sections 111 & 112.	Oriskany to Stanwix.	Rome to New London.	Road bridge at New London.	New London to Higgins.	
	Engineers' estimate,	\$18,670	\$4,950	\$8,000	\$7,220	\$2,300	\$4,000	
116	Boyer, Jos., Wm. Usher, Jas. Foster, H.	15,105	.....	.....	.....	.....	.....	H. P. Alexander, W. J. Skinner.
420,	.....	12,978	5,110	9,125	.....	.....	.....	D. Utley, J. Morris.
561,	.....	22,680	8,587	15,435	10,837	3,895	5,406	J. Bonten, E. Deion.
	.....	14,212	5,408	.....	.....	.....	.....	Sufferenas Reiber, J. Edick.
	Jy, H. D.	13,349	5,189	9,245	6,485	2,255	3,231	D. Denison, S. Hart.
	1 Candy, ..	13,373	5,174	9,239	6,484	2,239	3,230	A. W. Barnes, A. Ras.
	.....	16,425	4,652	8,473	6,753	.....	.....	T. J. Richman, J. Welling.
	.....	.....	5,740	10,351	7,174	2,465	3,739	H. Brayton, D. Utley, E. S. Brayton.
	.....	.....	.....	7,934	6,170	2,058	2,931	J. E. Whipple.
	.....	13,647	5,112	9,123	6,402	2,257	3,194	H. Evans, J. Peters.
624,	Kethauld .....	.....	5,954	10,413	7,222	2,426	3,424	W.
	.....	.....	.....	.....	.....	3,112	4,972	J.
	.....	12,753	4,902	8,826	6,651	2,290	3,310	C.
	.....	16,162	6,090	10,934	7,683	2,656	3,829	R.
732,	.....	.....	6,095	10,535	6,543	2,305	3,257	S.
	.....	13,914	4,857	8,745	.....	.....	.....	J.
	.....	13,894	5,241	9,389	6,594	2,293	3,286	M. C. Story, G. Law.
	1 & James	13,380	5,102	9,194	6,775	2,313	3,351	G. Stover, T. N. Dillingham.
445,	.....	13,113	5,201	.....	.....	.....	.....	W. C. Champion, J. Wyman Jones, J. S. Ray.
261, 138,	Roomfield .....	.....	6,078	11,051	7,761	2,920	4,036	H. Cammell, F. P. Bellinger, Graves, Ladin and Sailer.

PROPOSALS—(CONTINUED.)

No. of Proposition.	NAMES OF BIDDERS.	BRIDGE ADJUSTMENTS.						NAMES OF GUARANTY.
		Between Uiles and Frankford.	Road bridge on sections 111 & 113.	Oriskany to Sagoyk.	Rome to New London.	Road bridge at New London.	New London to Higgins.	
Engineers' estimate,.....		\$12,670	\$4,950	\$8,660	\$7,220	\$2,300	\$4,050	
420120000	H. E. Nelson Pellett, A. Purdy, E. B. White, E. J. Pratt, E. Shearn	14,091	4,717	8,597	6,061	2,065	3,010	E. Eldridge, T. Weed.
422,	.....	13,894	5,241	9,389	6,594	2,293	3,268	G. Law, D. Palmer.
423,	.....	.....	.....	.....	6,690	2,255	.....	A. H. Shultz.
602,	Leonard & Patrick Lavin,.....	14,915	5,039	9,129	6,416	2,218	3,194	T. Van De Karr, E. Powers.
247,	N., Jas. E. Van Horn, J. Y.	15,476	5,611	9,997	7,151	2,454	3,565	
	& Enoch Snell,.....	15,432	4,963	8,999	6,332	2,193	3,128	T. Burch, H. M. Burch, S. M. Richmond.
	& Horan Powell,.....	12,700	5,794	10,578	7,515	2,325	3,738	J. B. Wilcox, G. Benedict.
	.....	11,645	5,469	9,116	.....	.....	.....	L. R. Lyons.

PROPOSALS—(CONTINUED.)

No. of proposal.	No. of proposal.	NAMES OF BIDDERS.	DELTA FEEDER.				LOOK HOUSES.		NAMES OF GUARANTY.
			Section work.	Guard lock.	Bridges.	Culverts.	One on Section No. 18.	Seven on Secs. 22 to 31.	
		Engineer's estimate.....	\$10,070	\$6,130	\$380	\$590	\$340	\$8,575	
319		\$10,675	.....	\$860	.....	.....	.....	Charles Seva, J. I. Wilce.
780, 782		9,835	\$7,178	.....	.....	.....	.....	Eath Miller, J. Duff.
821		8,720	.....	.....	.....	.....	.....	W. Gilbert, J. Hanly.
776		518	\$6,698	R. G. Savary, R. C. Dean.
761		10,070	5,790	2,870	\$597	.....	.....	P. V. Kellogg, S. Utley, O. B. Mattison.
298		8,755	6,204	.....	.....	.....	.....	George Strover, T. G. Dillingham.
747		12,080	7,750	3,680	507	.....	.....	T. H. Bates, T. G. Holley.
391, 392, 393 }		5,225	.....	.....	.....	.....	R. Chase, H. Capron.
777, 778 }		N. Schuyler.
20		10,075	6,100	912	290	.....	.....	they.
825		10,411	7,067	1,242	319	.....	.....	.....
785		500	5,606	.....
159		6,984	.....	.....	499	5,390	.....
772, 737		408	4,400	.....
791		409	4,400	.....
374, 376		14,236	.....	.....	.....	.....	.....	.....
12		15,175	.....	.....	.....	.....	.....	J. Potter, H. O. Van Vorsk.
847, 848, 850 }		835	.....	.....	3,080	John West.
851, 853 }		James Reese.
798, 799		505	5,344	C. Comstock, J. Stryker.
836		10,505	6,911	1,608	720	.....	.....	J. Armstrong.
768		9,500	7,549	1,014	693	.....	.....	.....

No. of proposition.	NAMES OF BIDDERS.		DAMS.		Estimated cost of dam.	RESERVOIRS.			NAMES OF GUARANTY.
	Across B. R. at H. Falls	Across B. R. at Carriage	At Wood hall.	N. B. of B. R.		No. 1, S. B. of B. R.			
	Engineer's estimate,	\$4,500	\$8,000	\$900		\$8,000 add \$900	\$13,700 2,800	\$8,000 1,400	
802, 803	Burgess, John,					\$16,204	\$28,229	\$14,004	Wm. Spontenburgh, Isaac Flak.
831, 830	Britton, Joseph W., Edward Swain,								A. Bell, S. Swain, S. Britton.
755	Baldwin, G. W.,	\$10,103	7,239						N. J. Betch.
93, 94	Cromwell, A. E.,	9,315	8,198			8,349	15,088	8,316	David Utley.
703 to 707	Cronk, Hiram,	6,517				13,585	24,006	18,750	John Cronk, J. B. Bradt.
670	Clark, Matthew,					7,583	14,712	8,355	H. and G. Brayton, D. Utley.
189	Dunn, Peter,					8,400	14,474	8,446	R. and J. Dunn.
793, 795, 796	Ely, Erasmus,								C.
787, 811	Fox, John & Rayley,		8,312				22,420		J.
854	Flak, Isaac,								M.
732, 763	Grant, N. B.,			\$1,048				9,807	W.
845, 856	Gould, G. H.,	6,009							E.
752	Hodgkins, J. P.,		4,216						H.
778	Harrun, Elliott,					7,969	14,770	8,619	W.
80, 806	Johnson, William & Elliot Harrun,	7,164	8,404						W.
841	Mitchell, James & Thomas Brown,			942		9,804	16,871	8,705	W.
731	Miller, R. E.,					15,676	27,725	15,410	W.
803, 833, 834	Phillips, Solomon & Chester Ray,	6,979	8,202			8,069	15,536	8,463	N.
734	Post, Peter B.,					16,000	31,875	16,840	J.
278, 284	Rasback, J. M., Fred. Reese & Geo. Rasback,	4,007	6,247			5,509	10,243		P.
807, 82, 98 } 777, 778 }	Shippy, Nathan,	5,210	6,262			5,129	9,644	5,411	R. Chase, H. Ospron.
140	Shew, Lyman,		9,484						Charles
786, 843	Stewart, P. S. Wm. L. Easton, Peter Kirby,		7,878						J. W. I.
804	Thompson, E. K., J. McEachron & E. B. Thompson,					13,040	23,432	12,305	Horatio
816	Van Wagener, F. D.,	6,091	6,604						W. Pec
947, 48, 56 } 851, 858 }	Whittlesey, John,	4,777		857					John West.
797, 860, 807	Whittlesey, Walter & Henry S. Shedd,	4,038	6,206						James Reese.
798, 799	Whittlesey, Walter & Henry B. Shedd,					11,176	16,765	9,272	do
438	White, Harry,					6,286	11,616	5,768	De Witt C. Stephens.

PROPOSALS--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	RESERVOIRS.		Bridges.	Road Bridge at Hl. Falls.	Stone Culv. Sec. No. 30.	Improvement of Hl. Rivr.	Value of bids.
		No. 2, S. B. of B. E.	At Twin Lakes.					
	Engineer's estimate,.....	\$9,590, add 1,480	\$12,000	\$10,200	\$750	\$550	\$153,189	\$3,380
413, 416	Adams, Horace & H. W. Adams,.....						\$271,071	
892, 895	Burgess, John,.....	\$15,973	\$24,339				196,977	
931, 939, 948	Britton, Joseph W., Edward Swain,.....			\$13,454			111,069	
433	Barkley, Alexander,.....						162,557	
818	Brintnall, Hiram, Charles Nichols & J. E. Noel,.....						151,802	
93, 94	Cromwell, A. E.,.....			15,605				
738, 740	Cromwell, A. E. & Samuel Comstock,.....	9,592		10,315		\$596	180,891	
763 to 767	Cronk, Hiram,.....							
118	Cumdee, Wm., P. H. Reed, B. Ashley, &c.,.....	15,780	16,640					
678	Clark, Matthew,.....	9,391	9,990					
180	Dann, Peter,.....	9,611		12,241				
793, 795, 796	Id.,.....			11,612			161,858	
754, 756, 787, 788, 793, 945, 946,	Id.,.....						169,866	
80,		11,757			\$636			
		9,889	10,557					
	Harroun,.....						141,271	
	H. R. Hatch, &c.,.....						111,631	
				10,531				
509, 510,				13,116				
	J. Bate,.....			13,010				
							135,715	
783,	Hittlessey,.....			10,605				
	Mills,.....						134,206	
	Brown,.....	9,990	11,525					
		15,000						
789,	Newton,.....			11,941				\$3,125
				</				

[illegible]

ENLARGEMENT OF THE ERIE CANAL.

Eastern Division.—Accepted Propositions.—Western Sub-division.

No. of proposition.	NAMES OF PROPOSERS.	Character of Work.	Amount of bid.	Engineers' estimate.	NAMES OF GUARANTY.
728	J. C. Shippy,.....	Section No. 112,.....	\$20,230	\$20,500	W. C. Champlin, J. Wynnan Jones.
414	H. & G. Adams,.....	do 117,.....	15,147	21,000	Claimed by old contract.
	.....	do 118,.....	14,706	17,000	do
	.....	do 119,.....	16,805	19,000	do
	.....	do 120,.....	16,119	18,500	do
	.....	do 121,.....	14,080	18,600	do
	.....	do 122,.....	11,970	15,000	do
	.....	do 123,.....	51,841	54,100	P. V. Kellogg.
130	E. N. Kellogg,.....	do 124,.....	47,839	52,700	G. Law, D. Palmer.
503	Squire Utley,.....	do 125 & 126,.....	27,831	27,600	A. Roe, A. D. Barber.
428	Minor O. Story,.....	do 127 & 128,.....	27,556	28,500	P. V. Kellogg.
350	T. H. Bates,.....	do 129,.....	40,645	40,200	T. G. Holley, P. V. Kellogg.
611	Squire Utley,.....	do 130,.....	52,026	21,700	P. V. Kellogg, A. D. Barber.
724	Alexander Roe,.....	do 131 & 132,.....	14,692	17,400	J. D. Earl, N. H. Baugh, W. L. Howland, Severy.
9	W. Kimball & Co.,.....	do 133,.....			
		do 134,.....			
576	A. H. Prescott & Co.,.....	Lock No. 46,.....	\$341,450	\$370,100	Charles A. Wheaton.
132	J. K. Elwood & Co.,.....	do 41 & 42,.....	\$27,900	\$27,600	G. H. Brown, J. B. Bradt.
			52,640	53,700	
			\$80,440	\$81,200	
605	T. H. Fisher & Co.,.....	Steen culverts on sec. No. 111,.....	\$1,350	\$1,380	J. E. Whipple.
446	J. O. Shippy,.....	do 111 & 112,.....	1,763	1,900	W. C. Champlin, J. Wynnan Jones, J. E. Ray.
218	J.,.....	do 113 to 116,.....	2,761	3,380	J. Palmer, D. C. Ballin.
106	T.,.....	do 117,.....	2,077	2,210	J. E. Whipple.
605	J.,.....	do 118 to 120,.....	3,205	9,070	Assigned by Fisher & Co.
213	J.,.....	do 121 to 123,.....	2,238	3,520	J. Palmer, D. C. Ballin.
605	J.,.....	do 124 & 125,.....	2,363	2,568	Assigned by Fisher & Co.
		Composite do			
			\$20,742	\$22,800	

605	T. H. Fisher & Co.,.....	Waste weirs on sec. No. 120,.....	\$3,741	\$3,750	J. E. Whipple.
245	Van De Bogart & Co.,.....	do 127,.....	3,837	3,750	
613	Alexander Rae,.....	do 124,.....	3,611	3,750	T. G. Holley, P. V. Kellogg.
			\$11,189	\$11,250	
604	Jesse Matteson,.....	Dam, feeder and bulk-head,.....	\$11,443	\$12,000	S. Adams, E. Seymour.
421	J. Borden & Co.,.....	Bridge abutments sec. No. 101 to 106,.....	\$12,978	\$13,670	D. Utley, J. Morris.
558	A. Myers & Co.,.....	do 112 to 22,.....	13,728	13,610	C. Elwood, D. Mason.
400	H. E. Storms & Co.,.....	do 125 to 30 & at New London,	8,116	9,520	E. Eldridge, T. Weed.
719	W. Candee & Co.,.....	do 131 to 34,.....	3,231	4,660	D. Denison, S. Hart.
			\$38,053	\$40,860	
	Corning & Townsend,.....	Bridge superstructures,.....	\$25,455	\$23,650	
606	Seymour & Wood,.....	Valve gates,.....	\$1,513	\$1,650	H. Seymour, T. E. Clark.

SUMMARY.

Sections,.....	341,456	370,100
Locks,.....	80,440	81,200
Culverts,.....	20,742	22,800
Waste weirs,.....	11,189	11,250
Dam, feeder and bulk head,.....	11,443	12,000
Bridge abutments,.....	38,053	40,860
Bridge superstructure,.....	25,455	23,650
Valve Gates,.....	1,513	1,650
	\$530,291	\$563,510

BLACK RIVER CANAL.

Accepted Propositions.

No. of Propo- sition.	NAMES OF PROPOSERS.	Character of work.			
756	Fraser & McDonald,	Delta Feeder. Section,			
755	do	Guard lock,			
677	Brayton & Clark,	Bridges,			
749	J. C. Shipley,	Calverts,			
791	J. M. Slater,	Lock houses, section No. 18,			
845	G. H. Gould,	do 23 to 31,			
795	Whittlesey & Shedd,	Dam at High Falls,			
843	P. B. Stewart & Co.,	Cartbage,			
841	Mitchell & Brown,	Williamsville,			
841	do	Dams for reservoirs,			
834	Phelps & Ray,	Woodhull,			
849	Squire Utley,	Skates,			
843	G. H. Gould,	Small bridge at High Falls,	\$630	\$750	E. Plumb, P. Miller.
807	Whittlesey & Shedd,	Culvert, sec. No. 30,	\$593	\$550	James Reese.
844	W. W. Wright,	Improvement of Black river,	\$123,923	\$133,169	Horner Randall, D. Moore.
406	Seymour & Wood,	Valve gates,	\$2,337	\$3,300	H. Seymour, T. E. Clark.

SUMMARY.

	Amount of bld.	Engineers' estimates.
Delta feeder. Section and lock,	\$15,645	\$16,200
Bridges,	789	880
Culverts,	597	500
Lock houses,	4,525	3,915
Dams,	56,493	58,000
Sluices,	11,334	11,500
Road bridge,	636	750
Culvert, section No. 30,	393	550
Improvement of Black River,	128,923	153,189
Valve gates,	2,829	3,300
	<hr/> \$22,074	<hr/> \$248,786

MIDDLE DIVISION.

BIDS FOR WORK

LET AT ALBANY, NOVEMBER 18th, 1851.

ERIE CANAL ENLARGEMENT—MIDDLE DIVISION.

Abstract of proportions for sections on the Eastern Sub-division.

PROPOSALS—(CONTINUED.)

NAMES OF BIDDERS.		Sec. 135	Sec. 136	Sec. 137	Sec. 138	Sec. 139	Sec. 140	Sec. 141	NAMES OF GUARANTY.
Engineers' Estimate,		\$26,360	\$29,186	\$25,013	\$20,586	\$23,706	\$13,315	\$25,258	
89 Frazee, Chester W.,	16,610	19,907	17,113	15,192	17,162	10,406	19,074	Benl. Frazee, Albert Briggs, & O. Clark.	
98 Foster, J. C.,	27,386	31,731	27,039	22,460	25,035	16,086	19,074	Benl. Frazee, Albert Briggs, & O. Clark.	
110 Frazee, Jesse, .....	.....	23,554	20,339	16,818	20,138	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
13 Hitchcock, M. F., Lee A. Hitchcock, .....	.....	22,871	19,357	.....	.....	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
22 Hart, Samuel,	19,037	22,181	18,634	15,976	18,045	10,337	.....	Benl. Frazee, Albert Briggs, & O. Clark.
28 Hess, Daniel, .....	.....	.....	21,032	16,976	19,152	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	17,620	21,242	18,183	15,132	18,176	10,229	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	18,014	21,585	18,667	14,818	18,429	10,095	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	.....	.....	.....	.....	21,721	12,170	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	18,436	24,078	20,950	16,455	19,320	10,821	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	18,622	22,018	19,276	16,556	17,955	10,251	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	20,091	23,214	20,785	16,403	19,651	11,970	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	22,977	26,364	.....	.....	.....	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	19,022	22,221	17,571	14,664	18,294	8,526	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	19,662	23,168	20,599	15,457	24,614	10,960	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	24,963	40,413	32,618	29,804	34,926	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	.....	36,753	31,941	28,917	33,764	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	23,251	24,061	20,848	16,565	18,943	10,333	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	27,391	31,512	26,460	23,858	28,000	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	24,006	26,548	23,497	19,634	22,624	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	23,396	26,626	.....	.....	.....	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	20,617	25,805	21,973	17,934	20,801	11,925	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	20,458	23,280	22,094	17,816	20,554	12,027	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	22,390	27,047	27,068	19,956	23,031	13,049	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	21,927	26,849	25,170	19,876	21,414	11,825	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	25,434	29,308	26,106	21,018	24,410	13,734	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	23,003	25,591	22,656	18,608	21,219	12,891	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	25,591	30,105	25,356	20,505	.....	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	27,447	31,277	27,450	22,922	26,434	14,360	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	32,830	39,046	32,881	27,650	32,687	16,166	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	.....	.....	22,739	18,706	.....	.....	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	18,906	22,656	18,873	15,455	16,371	9,556	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	.....	29,000	25,842	19,842	21,440	15,312	.....	Benl. Frazee, Albert Briggs, & O. Clark.
.....	20,042	24,320	22,273	15,486	17,996	11,121	.....	Benl. Frazee, Albert Briggs, & O. Clark.

PROPOSALS--(CONTINUED)

PROPOSALS—(CONTINUED.)

No.	NAMES OF BIDDERS.	Sec. 142	Sec. 143	Sec. 144	Sec. 145	Sec. 146	Sec. 147	Sec. 148	NAMES OF GUARANTY.
		\$32,023	\$31,716	\$23,586	\$25,062	\$28,356	\$34,533	\$28,224	
74	Schuyler, Aaron,	23,264	28,583	20,926	20,493	25,677	23,936	26,270	Nicholas Schuyler.
92	Swain, James B. and D. C. Nodwell,	29,772	29,203	22,234	23,461	35,330	26,936	28,999	Henry J. Raymond & F. H. Ruggler.
99	Savage, James, & Solomon Brown,	35,378	34,945	26,153	32,977	25,838	26,560	28,999	Thomas James.
105	Sage, A. G., & A. T. Dunham,	30,822	31,601	23,144	25,166	25,936	31,115	28,999	John B. Challen and B. W. Sage.
108	Sage, Hezekiah,	30,402	30,148	22,064	23,803	24,698	23,804	28,999	Challen and C. C. Midler.
111	Stanzard, George, and Cadwell Belden,	26,222	25,231	22,274	23,682	24,698	23,804	28,999	E. Williams and R. Willett.
117	Thompson, James, and Wm. J. Nelson,	26,808	25,070	19,098	19,721	21,130	22,054	28,999	Kelley and H. Bennett.
	rd, & P. Lavin,	35,785	36,497	29,073	30,079	32,506	32,171	28,999	Der Kart and Robert Powers.
	Thompson & others,	28,231	27,311	19,673	20,395	21,799	20,72	28,999	De and Daniel Farnham.
	annon, E. Rosebrook,	33,418	32,577	24,527	30,004	32,510	31,641	28,999	Draper and Wm. H. Benton.
	.....	34,885	35,080	23,923	26,029	27,227	26,531	28,999	Woodworth, & M. D. Hollister.
	.....	21,718	23,809	15,617	17,153	15,649	17,588	28,999	Wright and R. Willett.
	.....	20,808	22,487	15,682	16,152	14,644	16,811	28,999	Hart and Wm. Candee.
103	Williams, Leelen,	27,294	26,997	20,425	20,260	23,045	19,23	28,999	Rhodes and A. P. Downer.
109	Walrath, J. J., H. Brown, J. L. Bebee, Geo. E. Downer, Lewis Bebee, &c.,								

PROPOSALS—(CONTINUED.)

NORTH LINE.			SOUTH LINE.			NAMES OF GUARANTY.
149	Sec. 150	Sec. 151	Sec. 149	Sec. 150	Sec. 151	
1,668	\$41,622	\$39,739	\$19,612	\$74,986	\$49,148	
1,312	32,354	31,199	22,196	54,249	44,243	Marcellis, Weston and Joseph Blair.
1,749	42,526	39,843	.....	.....	.....	Bissell, Langford, Comstock, & J. Armstrong,
1,519	61,483	46,176	33,632	89,871	70,922	Wm. Beard, E. C. Brinard.
1,008	32,163	30,565	.....	.....	.....	David Utley and John Morris.
1,100	32,892	33,167	20,490	47,029	.....	and Peter Van Valkenburgh,
.....	34,439	36,190	19,078	49,574	.....	W. Phelps, & J. G. White.
224	25,834	24,611	20,109	65,714	.....	Seoville.
1,787	33,865	31,113	.....	.....	.....	L. W. Conkey.
1,272	30,560	28,524	23,714	55,614	.....	Chas. E. Case.
1,257	28,533	28,510	18,780	53,821	.....	Geo. Brooks, Jr.
1,497	27,750	27,966	23,207	45,191	.....	Daniel Denolson.
1,129	31,485	30,242	21,545	59,555	.....	ey and A. Hoffman.
.....	34,368	32,505	.....	.....	.....	and Dewitt O. Stevens.
.....	.....	30,001	26,649	67,359	.....	O. C. Midler.
769	25,204	24,666	17,611	59,164	.....	and Samuel Hart.
865	34,705	31,924	31,614	32,327	.....	Henry Rebels and Levi Snell.
246	29,401	29,320	.....	.....	.....	J. P. T. Stranahan.
106	38,519	35,195	20,827	67,021	48,727	Merritt Clark and B. H. Marks.
773	27,681	25,726	17,078	47,208	82,933	Geo. Clark and N. P. Freeman.
987	25,094	24,774	17,341	51,174	30,032	Alanson Sumner.
901	27,939	25,639	16,896	.....	54,176	R. C. Kenyon and H. H. Coats.
929	34,442	32,374	22,192	69,749	27,998	T. J. Richmond and Joseph Welling.
476	40,649	42,746	26,073	75,081	43,956	Otis B. Howe.
189	42,385	45,487	23,607	66,663	45,897	Joseph M. Demmon and D. Chapman.
.....	35,966	37,268	22,832	79,497	.....	O. G. Case and J. W. Baker.
691	23,340	27,287	13,997	27,533	48,784	Hiram Delong.
1000	32,125	30,607	18,737	68,445	.....	J. S. T. Stranahan.
354	37,789	36,127	17,665	67,722	44,234	.....
1044	26,366	28,110	.....	.....	.....	.....
569	24,639	32,976	24,015	69,244	.....	.....
715	36,244	35,785	.....	.....	.....	.....
364	32,535	30,460	21,067	66,121	.....	.....

PROPOSALS—(CONTINUED.)

348

ASSEMBLY

45	Martindale, J., H. & John M. Ferrell.	26,160	.....	31,024	.....	30,826	.....	18,908	.....	57,331	.....	Orville Clark.
60	McDonald, James.	23,634	.....	29,767	.....	28,291	.....	17,146	.....	54,706	.....	Thurloew Weed.
82	Mills, Theodore G., and Peter Dunn.	21,738	.....	23,471	.....	32,449	.....	20,436	.....	48,649	.....	Thomas Van Der Kart and Robert Powers.
115	Moss, James B.	26,662	.....	24,630	.....	25,229	.....	17,656	.....	44,528	.....	Willard Fox.
77	Norris, Archibald R.	20,376	.....	37,012	.....	36,875	.....	23,011	.....	56,345	.....	Pratt.
87	Nichols, John H.	27,701	.....	41,686	.....	41,808	.....	.....	.....	.....	.....	Midler.
19	Peck, Linus Jones.	35,630	.....	31,260	.....	21,881	.....	15,336	.....	46,578	.....	son, Barton, Waggoner.
49	Palmer, Noah.	19,691	.....	31,863	.....	28,246	.....	20,383	.....	61,910	.....	vi Snell.
80	Pago, David, John Carrier, E. Judson, &c.	24,151	.....	.....	.....	27,308	.....	.....	.....	.....	.....	bez Hawley.
94	Pringle, James, & Thos. O. Bassett.	.....	.....	28,421	.....	29,456	.....	16,475	.....	45,086	.....	Honore White.
95	Pierce, James.	22,979	.....	.....	.....	26,248	.....	.....	.....	.....	.....	Marshall Hart.
67	Pratt, F., R. C. Hatch, J. Ecker, &c.	.....	.....	31,581	.....	31,168	.....	20,014	.....	50,866	.....	B. Matteson.
16	Richardson, P., J. Richardson, & J. Rae.	25,215	.....	29,880	.....	26,859	.....	.....	.....	.....	.....	J. M. Lynch.
20	Richman, Thos. J., & F. Morley.	23,030	.....	37,600	.....	36,262	.....	17,564	.....	67,815	.....	W. Allen.
91	Rice, Jerry B. & Co.	24,354	.....	.....	.....	.....	.....	22,640	.....	50,900	.....
7	Shultz, Alexander H.	27,221	.....	.....	.....	.....	.....	.....	.....	.....	.....
12	Woper, H. U.	21,775	.....	23,641	.....	25,328	.....	16,698	.....	44,654	.....

102	Williams, Lucien,.....	23, 121	30, 054	28, 346	17, 883	55, 161	Bagg,
109	Walrath, Brown, Heber, Downer, Heber, &c	27, 818	31, 082	27, 328	24, 047	57, 180	l. Wright.
112	Woolson, A., & Christopher Kelz,.....	24, 613	35, 256	35, 214	17, 569	58, 049	nola.
113	Wells, Lee, and Meredith Thomas,.....	29, 116	38, 182	38, 364	25, 479	62, 231	Stroud.
114	David C. Nodwell,.....	22, 802	31, 191	29, 867	20, 662	57, 591	Samuel French and Peter Van Valkenburgh.
115	Edmund C. Nodwell,.....	26, 345	32, 688	31, 042	19, 206	54, 188	Henry J. Raymond and F. H. Ruggles.
116	Edmund C. Nodwell,.....	22, 753	27, 013	25, 677	18, 576	53, 174	John Sandford.
117	Edmund C. Nodwell,.....	25, 084	33, 828	32, 265	18, 424	59, 813	Anson Sutherland and C. C. Midler.
118	Edmund C. Nodwell,.....	15, 683	19, 270	18, 231	11, 980	47, 635	E. N. Kelsey and H. Bennett.
119	Edmund C. Nodwell,.....	30, 713	34, 062	33, 919	22, 233	35, 946	C. W. Pomeroy and Thomas Y. Howe.
120	Edmund C. Nodwell,.....	21, 376	25, 360	24, 366	22, 233	58, 284	Thomas Van Der Karr and Robert Powers.
121	Edmund C. Nodwell,.....	28, 454	43, 640	44, 355	22, 233	58, 284	Uriah Phelps and Daniel Farnham.
122	Edmund C. Nodwell,.....	28, 414	41, 302	41, 618	22, 233	58, 284	Simoon Draper and Wm. H. Henton.
123	Edmund C. Nodwell,.....	30, 007	41, 302	41, 618	22, 233	58, 284	W. W. Woodworth and M. D. Hollister.
124	Edmund C. Nodwell,.....	20, 202	24, 204	21, 889	16, 806	51, 414	George W. Wright and R. Willett.
125	Edmund C. Nodwell,.....	22, 808	30, 778	27, 760	16, 971	45, 781	Samuel Hart and Wm. Candee.
126	Edmund C. Nodwell,.....	22, 502	28, 989	27, 818	19, 745	54, 182	Elijah Rhoades and A. P. Downer.
127	Edmund C. Nodwell,.....	22, 502	28, 989	27, 818	21, 039	47, 134	Gardner Woolson and Daniel Pratt.
128	Edmund C. Nodwell,.....	22, 502	28, 989	27, 818	14, 486	46, 422	Darwin Wells.

20	Storrs, H. E., Nelson Pallett, Alfred Purdy, W. C.	1,847	3,084	1,547	1,996	1,547	3,982	Edwin Eldridge and Sennel Wood.
25	White, E. B. Smith, E. J. Pratt & Ed. Shaw, ..	.....	.....	.....	.....	1,674	4,270	Daniel Crosse and Sylvanus Stroud.
6	Stroud, Charles, .....	.....	.....	.....	.....	1,718	4,419	Thomas Van Der Kar and Patrick Levin.
24	Van Der Kar, Leonard & Patrick Levin,	1,718	3,412	1,728	2,223	.....	.....
	Van Slyck, Albert, Sydney P. Thompson, J. Van	.....	.....	.....	.....	.....	.....
	Slyck, Jr., Allen H. Gallett & Leimnal Field,	1,600	3,711	1,628	1,861	1,385	3,492	

BRIDGE ABUTMENTS—(CONTINUED.)

NAMES OF BIDDERS.		Sec. 144.	Sec. 148.	Sec. 149.	Sec. 151.	Sec. 152.	Sec. 151.	NAMES OF GUARANTY.	
Engineers' estimates.				1 Bridge.	2 Bri'gs.				
7	Breed, Joseph, Charles Nichols & H. Brintzall,....	3,162	3,362	1,606	3,126		1,524	2,750	Hamilton White.
10	Bond, Ezra, jun.,	3,946	3,966	2,048	3,641				Samuel French and Peter Van Valkenburgh.
14	Brown, R. H.,	3,856	3,857	1,952	3,599				Erma Mallett & Peter Tracey.
16	Curby & N. A. Gurney,	2,625	3,044	1,631	2,835				Constant Cook.
22	Reid, B. Aubrey, H. D.	3,953	3,002	1,506	3,026				in Clark.
23	Reid & Jason Candee,	2,720	2,670	1,340	2,633			2,664	Walrath.
24	B. Matthews,	2,952	2,951	1,528	2,751				Welling.
25	.....	2,720	2,766	1,596	2,756				as.
26	.....	3,022	3,023	1,518	2,822		1,518	2,822	
26	.....	3,225	3,199	1,625	3,089				
27	.....	3,109	3,106	1,579	3,960		1,579	2,900	
27	.....	2,709	2,551	1,343	2,496				
28	.....	3,870	3,869	2,086	3,865			2,850	
12	.....	3,621	3,621	1,834	3,874				Cheever.
1	.....	2,083	2,692	1,351	2,509				jun.
37	.....	3,559	3,619	1,804	.....				Orville Clark.
29	.....	2,896	1,447	.....	.....		
30	.....	2,495	2,029	1,633	2,096				Edward Simms and John Bates.
21	.....	3,745	3,753	1,878	3,502				Horace Peck and Joseph Pratt.
25	.....	3,414	3,188	1,616	2,975				Henry Reals and Levi Snell.
22	.....	2,869	2,869	1,447	2,674				
31	.....	.....	3,020	1,518	2,832		1,518	2,823	P. V. Kellogg and O. B. Matteson.
6	.....	2,734	2,734	1,367	2,549				Royal White and D. McCarthy.
18	.....	2,394	2,244	1,182	2,087		1,174	2,108	Henry J. Raymond and P. H. Ruggles.
16	.....	4,673	4,673	2,429	4,853				John W. Allen.

24	Shannon, Nehemiah,	3,145	3,145	1,022	2,923	.....	.....	David Thomas and J. P. Howell.
29	Storm, H. E., Nelson Pallett, Alfred Purdy, W. O. White, E. B. Smith, E. J. Pratt & Ed. Shaw,	3,084 3,283 3,412	3,084 3,283 3,612	1,447 1,674 1,718	2,874 3,179	1,547	2,874	Edwin Eldridge and Samuel Wood. Daniel Crouse and Sylvanus Stroud. Thomas Van Der Kar and Patrick Lavin.
25	Leonard & Patrick Lavin,	2,777	2,777	.....	.....	.....	.....	.....
34	ert, Sydney P. Thompson, Jas. Van llen H. Gillet & Lemuel Field,	2,172	2,320	1,060	1,870	.....	.....	Darwin Wells.
11	eredith, Thomas, .....	.....	.....	.....	.....	.....	.....	.....
28	J., Jas L. Beebe, H. Brown, G. E. Herbottle & William H. Walrath, .....	.....	3,048	1,544	3,638	1,544	.....	Lewis Beebe and A. P. Downer.

ABSTRACT of propositions for Culverts on Eastern sub-division.

854

[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	SECTION 135.				SECTION 136.				NAMES OF GUARANTY.
		Composite at station 23.	Composite at station 39.	Aggregate of section 135.	Composite at station 11.	Composite at station 41 1/2.	Stone box at station 71.	Aggregate of section 136.		
		\$1,390	\$1,440	\$2,830	\$1,426	\$1,197	\$1,157	\$3,781		
15	Engineer's estimate,.....	.....	.....	.....	\$1,589	\$1,420	\$1,283	\$4,273	Hamilton White.
43	Breed, Joseph, Charles Nichols & H. Brintnall,.....	1,324	\$1,365	\$2,690	1,333	1,228	1,134	3,695	E. Rhodes, A. P. Downer, J. J. Walrath.	
46, 47	Brown, Hiram, Geo. E. Downer, J. Harbottle, &c.,.....	1,208	1,257	2,466	1,126	1,075	1,094	3,296	Benj. Fraser, Alb. Briggs, and O. Clark.	
5	Bruen, Timothy,.....	1,662	1,715	3,377	1,705	1,443	1,391	4,539	Asa Cady.	
9	Cady, Asa W. & B. F.,.....	.....	1,407	1,407	1,467	1,280	.....	2,747	V. W. Smith.
18	Carpenter, Charles,.....	1,416	1,503	2,919	1,443	1,221	1,021	3,685	Thos. J. Richmond and Joseph Wellings.	
29	Davidson, John,.....	1,420	1,463	2,883	1,483	1,390	1,259	4,132	Otis B. Howe.	
39	De Wolf, Delos,.....	1,420	1,463	2,883	1,483	1,390	1,259	4,132	J. S. T. Stranahan.	
16	Farwell, Samuel & Samuel Zimmerman,.....	1,364	1,311	2,675	1,387	1,170	921	3,478	J. E. Whipple.	
12	Fisher, Thomas H. & Jacob Groat,.....	1,364	1,311	2,675	1,387	1,170	921	3,478	Charles Vrooman and John O. Frasee.	
2	Fisher,.....	1,508	1,560	3,066	1,647	1,366	1,259	4,162	J. E. Whipple.	
42	Gawne, &c.,.....	1,439	1,587	3,026	1,528	1,296	1,340	4,164	Isaac D. Earl and R. H. Bangs.	
1	Lewis, William & Henry C. Morton,.....	1,483	1,531	3,014	1,419	1,268	1,168	3,855	I. S. Parker and J. P. Fitch.	
3	Loomis, Henry & L. D. & J. Van Slyke,.....	2,049	1,784	3,833	1,770	1,543	1,491	4,905	Elam Thomas and David L. Farnham.	
17	Mallet, Ezra & Levi Curtis,.....	1,624	1,632	3,256	1,616	1,431	1,326	4,375	Josiah Decker and Peter Tracey.	
20	Morton, Samuel W. & Thomas Jones, jr.,.....	1,480	1,527	3,007	1,540	1,390	1,277	4,207	Eri Seymour and Sanford Adams.	
7	.....	.....	.....	.....	1,757	1,654	1,413	4,824	George Brynton and David Utley.
24	Richard Hess,.....	1,908	1,956	3,864	1,872	1,820	1,733	5,426	Daniel Hess and A. D. Barber.	
6, 23	.....	1,594	1,639	3,233	1,627	1,444	1,246	4,317	Homes Peck and Joseph Pratt.
44	Wille C. Hatch, J. Eaker, &c.,.....	1,354	1,435	2,787	1,373	1,272	1,160	3,605	Chas. A. Wheaton and J. M. Kason.	
22	.....	1,402	1,437	2,839	1,384	1,292	1,156	3,622	John Sandford.
27, 39	James, Orrle P. Fay, &c.,.....	1,424	1,464	2,888	1,357	1,349	1,029	3,735	Royal White and D. McCarthy.	
40	.....	1,521	1,576	2,997	1,470	1,374	1,214	4,038	David Thomas and J. P. Howell.
10	& Kuba N. Kelsey,.....	1,260	1,293	2,553	1,288	1,189	1,028	3,505	Do Witt C. Stephens and W. Norton.	
11	.....	1,869	1,896	2,765	1,419	1,301	1,159	3,679	Thomas A. Smith and J. L. Bagg.

48	Storms, H. W., Alfred Purdy, &c.,.....	1,683	1,684	3,317	1,686	1,483	1,269	4,398	Edwin Eldridge and Samuel Weed.
25, 26	Stroud, Charles,.....	1,516	1,560	3,076	1,519	1,396	1,233	4,148	Daniel Crouse and Sylvanus Stroud.
31	Van Der Karr, Leonard & P. Levin,.....	1,760	1,813	3,573	1,687	1,610	1,457	4,734	Robert Powers and Thos. Van Der Karr.
8	Van Slyck, Albert, S. P. Thompson, &c.,.....	1,993	2,022	4,015	2,016	1,915	1,720	5,651	Uriah Phelps and David L. Farnham.

PROPOSALS—(CONTINUED.)

256

[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	SECTION 137.			SEC. 138.	SECTION 139.			NAMES OF GUARANTY.
		Stone box at station 22.	Composite at station 10.	Aggregate of section 137.		Arch at station 1.	Arch at station 20.	Aggregate of section 139.	
15	Engineer's estimate,.....	\$1,178	\$1,716	\$3,895	\$1,855	\$1,978	\$6,363	\$8,341	
16	Richard Trench & William H. Bennett,.....	.....	.....	.....	\$1,861	.....	.....	.....	Morris.
	Fishels & H. Brinimall,.....	\$1,808	\$1,876	\$3,180	2,112	\$2,434	\$7,523	\$9,1	.....
	Downer, &c.,.....	1,150	1,641	2,791	.....	.....	.....	.....	.....
	.....	1,059	1,452	2,522	.....	.....	.....	.....	.....
	M. Hill,.....	.....	.....	.....	2,612	2,485	9,257	12,1	.....
	.....	1,450	2,072	3,472	1,988	2,376	6,904	9,1	.....
	.....	.....	1,745	.....	.....	.....	.....	.....	.....
	.....	994	1,736	2,730	1,815	2,106	5,910	8,1	.....
	.....	1,379	1,887	3,166	1,956	2,346	6,717	9,1	.....
	Vol Zimmermann,.....	1,379	1,887	3,166	1,956	2,346	6,717	9,1	.....
	Vol Grosh,.....	942	.....	.....	1,872	1,824	5,477	7,1	.....

	.....	942	1,008	2,550	1,841	1,888	7,443	.....	George Stone and Miles Higginbotham.
	.....	1,353	1,840	3,123	.....	.....	6,572	8,440	Charles Vrooman and John O. Frazee.
	H. Fisher,.....	.....	.....	.....	.....	.....	.....	.....	J. E. Whipple.
	.....	.....	.....	.....	.....	1,914	6,398	8,513	Delos Dewolf.
	William Gawne, &c.,.....	1,215	1,891	3,108	.....	.....	7,030	.....	.....
	& J. Van Slyke,.....	1,521	2,116	3,637	2,039	2,456	7,006	9,462	.....
	.....	1,304	2,078	3,442	.....	.....	.....	.....	.....
	.....	1,746	2,374	4,122	.....	.....	.....	.....	.....
	.....	1,319	1,752	2,971	1,757	2,739	8,954	11,793	.....
	.....	1,271	2,007	3,278	.....	.....	.....	.....	.....
	C. Hatch, J. Becker, &c.,.....	1,139	1,784	2,903	1,795	2,076	6,969	9,045	.....
	.....	.....	.....	.....	.....	.....	6,810	.....	.....
	.....	1,101	1,956	3,056	.....	.....	.....	.....	.....
	.....	1,047	1,851	2,908	1,602	1,036	6,291	8,227	John Sandford.
	.....	1,253	1,922	3,161	.....	.....	.....	.....	Royal White and D. McCarthy.
	.....	1,000	1,835	2,607	1,636	.....	.....	.....	David Thomas and J. P. Howell.
	.....	.....	.....	.....	.....	.....	.....	.....	De Witt O. Stephens and W. Korten.

11	Smith, Silas F. & Co.,	1,150	1,763	2,913	1,776	1,970	6,400	8,370	Thomas A. Smith and J. L. L. Bagg.
48	Storrs, H. E., Alfred Purdy, Nelson Pellett, & Co., ..	2,294	2,655	3,349	2,000	2,388	7,390	9,778	Edwin Eldridge and Samuel Weed.
25, 26	Stroud, Charles,	1,253	1,871	3,124	1,878	2,261	7,426	9,687	Daniel Crouse and Sylvanus Stroud.
27	Tupper, Harvey N., .....	.....	.....	.....	1,977	2,402	7,536	9,938	E. N. Kelsey and Hiram Bennett.
31	Van Der Karr, Leonard & Patrick Lavin,	1,482	2,228	3,710	2,219	2,617	8,234	10,851	Robert Powers and Thos. Van Der Karr.
8	Van Slyek, Albert, Sydney P. Thompson, & Co., ..	1,733	2,351	4,084	2,263	2,523	6,640	9,163	Uriah Phelps and David L. Farnham.
49	Woodworth, Samuel, .....	.....	.....	.....	2,603	3,518	10,144	13,662	W. W. Woodworth and M. D. Hollister.

10	Shaden, John C. jr. & Eliash N. Kelsey,.....	6,189	794	6,983	.....	.....	.....	.....	De Witt C. Stephens and W. Norton.
11	Smith, Silas F. & Co.,.....	5,979	904	6,883	.....	4,711	.....	2,290	Thomas A. Smith and J. L. Bagg.
48	Storrs, H. E., Alfred Purdy, Nelson Pellett, & Co.,	7,376	1,027	8,403	2,072	5,401	1,689	2,643	Edwin Eldridge and Samuel Weed.
25, 26	Stroud, Charles,.....	6,531	1,018	7,549	1,982	5,380	1,560	2,458	Daniel Crouse and Sylvanus Stroud.
27	Tupper, Harvey N.,.....	.....	.....	.....	.....	5,622	.....	.....	E. N. Kelsey and Hiram Bennett.
31	Van Der Karr, Leonard & Patrick Lavin,.....	8,507	1,160	9,667	2,240	5,988	1,813	2,883	Robert Powers and Thos. Van Der Kar.
8	Van Slyok, Albert, Sydney P. Thompson, & Co., ..	6,895	1,518	8,413	2,358	4,927	2,022	2,812	Uriah Phelps and David L. Farnham.

PROPOSALS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	SOUTH LINE.				NAMES OF GUARANTY.
		Section 150.	Section 149.	Section 140.	Section 151.	
		Stone box at station 83.	Composite at station 44.	Composite at station 3.	Stone box at station 55.	
	Engineer's estimate,.....	\$1,069	\$1,363	\$6,993	\$1,178	
24	Bond, Ezra, jr.,.....	.....	\$2,207	\$8,710	\$1,642	Samuel French and P. Van Valkenburg.
15	Breed, Joseph, Charles Nichols & H. Brintnall,.....	.....	.....	.....	1,575	Hamilton White.
43	Brown, Hiram, G. E. Downer, J. Harbottle, &c.,.....	\$1,136	.....	.....	.....	E. Rhodes, A. P. Downer, J. I. Walrath.
46, 47	Bruen, Timothy,.....	1,199	.....	.....	.....	Benj. Frasee, A. Briggs and O. Clark.
5	Cady, Amos W. & B. F.,.....	1,223	.....	.....	.....	Ass Cady.
18	.....	1,053	.....	.....	.....	Thos. J. Richmond and Joseph Wellings.
29	.....	1,069	1,338	6,700	1,142	Otis B. Howe.
39	.....	1,276	1,634	7,515	1,320	J. S. T. Stranahan.
2	Groat, Jacob & Thomas H. Faber,.....	1,180	1,473	6,235	1,283	J. E. Whipple.
21	Hebbard, Clark & Michael B. Hutchins,.....	957	1,215	6,395	924	Russell Hebbard and Norman Otis.
12, 45	Lester, Moses W. & Stephen M. Stokes,.....	.....	1,683	6,824	1,409	C. W. Pomeroy and Thomas Y. Howe, Jr.
3	Loons, Henry & L. P. & J. Van Slyck,.....	.....	.....	.....	.....	Elam Thomas and David L. Farnham.
4	Owens, David E.,.....	1,276	1,227	6,147	1,065	Edward Sims and John Bates.
28	Page, David, John Carrier, Geo. Everson, &c.,.....	1,021	.....	.....	.....	Joseph W. Bostwick, James Jackson, &c.
6, 23	Peck, Linus Jones,.....	1,061	1,561	7,147	1,271	Horace Peck and Joseph Pratt.
30	Rice, Jerry B.,.....	1,140	1,340	6,467	1,156	P. V. Kellogg and O. B. Matteson.
37, 38	Shannahan, John & James, Orris P. Fay, &c.,.....	1,045	.....	.....	.....	Royal White and D. McCarthy.
40	Shannon, Nehemiah,.....	952	.....	.....	.....	David Thomas and J. P. Howell.
48	Storrs, H. E., Alfred Parry, Nelson Pellet, &c.,.....	1,236	.....	.....	.....	Edwin Eldridge and Samuel Weed.
35, 26	Stroud, Charles,.....	1,185	1,600	7,876	1,294	Daniel Crouse and Sylvanus Stroud.
31	Van Derkar, Leonard & Patrick Lavin,.....	1,139	.....	.....	.....	Robert Powers and Thomas Van Der Kar.
		1,826	1,727	8,507	1,482	

ABSTRACT of propositions for Aqueducts.]

No. of proposition.	NAMES OF BIDDERS.	NORTH LINE.		S. LINE.	NAMES OF GUARANTY.
		Canasatego, on Sec. 149.	Chittenango, on Sec. 151.		
	Engineers' Estimate,.....	\$12,226	\$17,334	\$18,204	
	L. Beebe, J. W. Beebe, H. alrath, & G. E. Downer,	14,888	20,122	20,533	Elijah Rhoades, Downer & Walrath.
	.....	18,028	28,886	29,536	Samuel French & P. Van Valkenburgh.
	Willard H. Bennett,...	10,602	15,046	15,404	David Utley & John Morris.
	Nichols & H. Brintnall,	17,052	19,279	19,790	Hamilton White.
	Villiam H. Hill,	20,718	27,971	29,251	Josiah Boughton & Samuel Douglas.
	J. F.,	14,515	19,191	.....	Asa Cady.
	L. & William L., jun.,...	.....	17,287	17,675	G. Tyrrell, A. P. Downer & J I Walrath.
	.....	13,694	15,191	15,575	Thomas J. Richman & Joseph Welling.
	.....	14,044	19,440	.....	Abraham Elwood, Nicholas N. Schuyler.
	.....	16,407	.....	.....	J. E. Whipple.
	.....	11,167	15,061	15,435	Russell Hebbard & Norman Otis.
	.....	12,917	16,507	16,918	Isaac D. Earl, R. H. Bangs &c.
	.....	12,420	17,087	17,548	H. P. Mills, H. Swan & H. Brintnall.
	.....	13,103	20,432	18,988	T. T. Davis, H. W. Van Buren.
	Wm. Johnston,.....	12,437	.....	.....	Edward Sims & John Bates.
	.....	16,020	21,070	21,870	
7	Peck, Linus Jones,.....				

PROPOSALS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	NORTH LINE.		S. LINE.	NAMES OF GUARANTY.
		Canasatego, on Sec. 149.	Chittenango, on Sec. 151.		
	Engineers' estimate,.....	\$12,226	\$17,334	\$18,204	
8	Page, David, John Carrier, Geo. Everson & Egbert Judson,.....	15,268	19,580	20,246	Joseph W. Bostwick, James Judson & Co.
15	Prescott, Amos H. & Luther Chase,.....	.....	20,743	21,127	Chauncey Johnson, C. A. Griffith & Co.
17	Pringle, James & Thomas O. Bassett,....	13,289	18,156	18,617	Henry Reals & Levi Snell.
19	Pratt, Fred., Reville C. Hatch, J. Ecker, Elijah S. Payne & John L. Dix,.....	.....	16,570	17,082	Charles A. Wheaton & J. M. Kasson.
20	Rice, J. B. & Co.,.....	11,853	18,367	18,697	P. V. Kellogg & O. B. Matteson.
3	Schuyler, Aaron,.....	12,478	17,168	.....	Nicholas Schuyler.
9	Shannon, Nehemiah,.....	.....	18,336	18,848	David Thomas & J. P. Horner.
10	Shaunahan, John & James, O. P. Fay & Archibald Hays,.....	10,982	16,850	17,183	Royal White & D. McCarthy.
21	Stroud, Charles,.....	14,324	21,084	21,545	Daniel Crouse & Sylvanus Stroud.
25	Sage, Hezekiah,.....	11,977	17,021	17,533	John Sandford.
27	Sage, A. G. & A. T. Dunham,.....	.....	18,873	19,176	L. McChesney & Royal Ball.
29	Swain James B. & David C. Nodwell,....	14,057	.....	.....	H. J. Raymond & F. H. Ruggles.
31	Skaden, John C. & Elisha N. Kelsey,....	15,179	24,220	24,732	Dewitt C. Stevens & Warren Norton.
32	Smith, Silas F.,.....	16,562	.....	.....	Thomas L. Smith & J. L. Bagg.
38	Shoemaker, Conrad & Nathaniel West,....	10,375	21,547	.....	John N. Allen.

39	Storrs, H. E., E. B. Smith, A. Purdy, N. Pellett, E. J. Pratt, W. C. Pratt & E. Shaw,	14,955	.....	21,345	Edwin Eldridge & Samuel Weed.
2	Thompson, J. P. & Lemuel Field, .....	.....	17,966	.....	.....
22	Tupper, Harvey N.,	14,038	19,543	20,183	E. N. Kelsey & Hiram Bennett.
12	Vrooman, Charles,	12,773	15,914	16,298	Benjamin Frazee & John O. Frazee.
13	Van Der Karr, Leonard & Patk. Lavin, ..	18,345	27,874	31,649	Thos. Van Der Karr & Robt. Powers.
11	Woodworth, Samuel,	18,918	26,781	27,805	.....
24	Wells, Lee & Meredith Thomas,	11,884	14,491	14,901	Darwin Wells.

ABSTRACT of propositions for Waste Weir.

No. of Proposition.	NAMES OF BIDDERS.		Section 141. Station 72½.	NAMES OF GUARANTY.
	Engineers' estimate,.....		\$2,647	
9	Cady, A. W. & B. F.,.....		3,674	Asa Cady.
1	Foster, John C. & Co.,.....		3,709	George Stone & Niles Higginbotham.
2	Frazee, C. W.,.....		3,118	Benjamin Frazee, Albert Briggs & Orrin Clark.
6	Frazee, Benjamin,.....		4,508	
12	Howe, Otis B.,.....		2,683	Delos De Wolf.
3	Kasson, Joseph M. & Arthur Lewis,.....		4,170	Charles A. Wheaton.
5	Lester, M. W.,.....		3,522	C. W. Pomeroy & Thomas Y. Henry.
7	Mallett, Erra & Levi Curtis,.....		2,719	Isaiah Decker & Peter Tracey.
10	Owens, David E.,.....		3,284	Edward Sims & John Bates.
11	Pringle, James & Thomas O. Bassett,.....		3,589	Henry Reals & Levi Snell.
4	Stroud, Charles,.....		3,357	Daniel Crouse & Sylvanus Stroud.
8	Skaden, John C. & E. N. Kelsey,.....		3,012	Dewitt C. Stevens & Warren Norton.
13	Shannahan, John & James, O. P. Fay & Arch. Hays,		3,136	Royal White & D. McCarthy.

ABSTRACT of propositions for Dam and Guard Gate.

No. of Proposition		NAMES OF BIDDERS.			
		Engineers' estimate,.....			
9		Joseph & Willard H. Bennett,.....		2,466	Asa Cady.
12		W. & B. F.,.....		3,100	Benjamin Frazee, Albert Briggs & Orrin Clark.
4		James, J. W.,.....		2,984	J. E. Whipple.
3		Groat, Jacob & Thomas H. Fisher,		2,896	Delos De Wolf.
7		Howe, Otis B.,.....		2,540	Charles A. Wheaton.
10		Kasson, Joseph M., & Arthur Lewis,.....		3,459	C. W. Pomeroy & Thomas Y. Howe.
11		Lester, M. W. & Stephen M. Stokes,.....		2,670	Edward Sims & John Bates.
6		Owens David E.,.....		2,612	Henry Reals & Levi Snell.
1		Pringle, James & Thomas O. Bassett,		2,726	Daniel Crouse & Sylvanus Stroud.
18		Peck, Linus Jones,.....		3,763	Dewitt C. Stevens & Warren Norton.
2		Stroud, Charles,		2,609	Royal White & D. McCarthy.
5		Skaden, John C. & E. N. Kelsey,.....		2,307	
8		Shannahan, John & Jas., O. P. Fay & Archd. Hays,.....		3,002	

32 1	P.	27,834	26,219	20,890	28,906	25,833	Edward P. Cowles.
34 1	Edson Bishop,	21,683	20,371	26,346	21,908	27,631	Elijah Miller.
38 1	.....	22,645	30,671	24,673	23,170	32,642	Thurlow Weed.
46 1	John C. Foster,	.....	.....	.....	21,396	.....	D. H. Smith, Aaron Quinby.
75 Mills, Theodore G.	Peter Dunn,	21,260	30,515	26,920	23,465	27,659	Henry Swan, Robert Powers, Hiram Brintnall.
16 Nichols, John H.,	.....	27,824	28,219	30,860	28,990	35,833	.....
18 D. D.	.....	36,459	43,107	28,640	27,760	40,397	Horace Peck. Joseph Pratt.
	J. Hatch, John Ecker, E. S. Payne,	.....	.....	.....	.....	.....	.....
	.....	20,441	29,606	26,726	22,920	.....	C. A. Wheaton, Horace White.
	.....	24,297	33,260	34,360	28,495	38,536	David Thomas, J. P. Howell.
	.....	.....	.....	.....	24,775	.....	Miles S. Leach, D. Chapman.
	.....	.....	.....	.....	.....	27,498	S. C. Holden, G. W. Allen.
	.....	20,035	28,610	34,268	21,645	.....	Samuel Hart, Hiram Brintnall.
	G. Huggins, A. Cook, G. C. Gere,	22,947	32,237	.....	.....	26,779	Harvey E. Nelson, Reuben Willett.
	William J. Nelson,	20,316	28,683	23,620	20,910	37,697	Thomas Van Der Karr, Robert Powers.
	onard, Patrick Lavin,	28,159	36,248	31,540	26,455	28,908	Samuel A. Hatfield, J. H. Seymour, H. Wheaton.
	.....	.....	.....	28,676	.....	33,201	W. W. Woodworth, M. D. Hollister.
	.....	23,701	36,544	28,060	31,780	.....	Joseph M. Demmon, James Rogers.
	Albert B. Leach,	.....	.....	.....	23,090	.....	.....

PROPOSALS--(CONTINUED.)

[illegible]

61 Hatfield, Samuel A., Gardner Weston,	99, 697	66, 283	19, 015	18, 611	J. H. Reynolds, Horace Wheaton.
62 Haggarty, John, James Deane,	116, 563	120, 076	13, 865	13, 981	S. N. Brett, James A. Hovey.
63 Jacobs, S. P., C. C. Smith, Wm. Waldron, D. Brett,	105, 225	75, 726	75, 871	13, 708	C. W. Pomeroy, Thos. Y. Howe, jun.
23 Lester, Moses W., Stephen M. Stokes,	111, 968	95, 616	18, 971	28, 444	W. A. Cheever, Edward Learned.
31 L.	111, 405	96, 887	96, 820	84, 966	R. Rose, A. Myers, J. Myers,
2 B. B. D.	118, 926	84, 966	83, 457	20, 208	Thomas B. Simons.
15 A.	104, 036	101, 041	13, 223	15, 703	Powers, Hiram Brintnall.
26 A.	116, 606	87, 804	15, 703	21, 403	Charles Vrooman.
32 A.	114, 242	87, 804	15, 703	21, 403	Pratt.
34 A.	121, 040	87, 804	15, 703	21, 403	
38 A.	91, 682	87, 804	15, 703	21, 403	
75 A.	116, 606	101, 041	15, 703	21, 403	
16 B.	95, 042	91, 015	15, 703	21, 403	
72 Norris, Archibald R.,	105, 061	97, 239	22, 569	14, 631	C. A. Wheaton, Horace White.
73 Peck, L. Jones,	172, 130	82, 505	14, 631	16, 122	J. W. Bestwick, James Jackson and others.
67 Pratt, Fred. B. C. Hatch, John Baker, E. B. Payne, John,	119, 169	88, 333	16, 122	16, 804	Miles S. Leach, D. Chapman.
74 Page, David, J. Carrier, Egbert Judson, G. Everson,	120, 819	96, 206	17, 521	14, 633	Edward Dodd.
55 Richmond, Van R., Zebulon Moore, A. B. Williams,	119, 232	102, 478	19, 150	14, 740	A. B. Dickinson, T. M. Nivin.
58 Reynolds, Nathan, Samuel Desobles, A. B. Barkley,	50, 588	50, 860	14, 705	19, 253	S. C. Holden, G. W. Allen.
4 Smith, George,	130, 940	119, 892	12, 929	19, 253	Samuel Hart, Hiram Brintnall.
12 Soper, Horace U.,	131, 100	70, 178	16, 180	19, 602	Jc
32 Sutherland, Anson, George G. Huggins, Albert Cook,	121, 840	82, 123	16, 180	18, 432	See canvass of eastern division for guaranty.)
George C. Gere,	153, 778	84, 968	16, 180	14, 592	Harvey E. Nelson, Reuben Willitt.
21 Sturtevant, John A., J. Freymire, H. Pardee, G. Bell,	137, 065	87, 524	18, 543	13, 773	Thomas Van Der Karr, Robert Powers.
45 Sackett, W. A., Franklin Gage, W. Knox, E. S. Lathan,	56, 150	56, 482	14, 251	16, 377	James H. Sherrill, John A. Sherrill.
52 Sankey, W. T. J.,	77, 772	78, 597	22, 288	17, 205	Simeon Draper, Wm. H. Benton.
64 Sage, C. H., A. T. Dunham,	118, 263	87, 761	16, 377	17, 284	Joseph M. Demmon, James Rogers.
65 Storms, Hiram & Co., (see canvass of eastern division,)	133, 396	101, 101	16, 736	17, 044	
17 Thompson, James		89, 197	17, 044		
73 Van Der Karr, Le					
22 Wright, Wm. W.,					
30 Webster, Jas. B., Nehemiah Shannon, E. Rosebrook,					
60 Leach, Edwin B., Albert B. Leach,					

ABSTRACT of propositions for Culverts on Western sub-division.

No. of proposition as contested.	NAMES OF BIDDERS.	SECTION 189.			SECTION 190.			SECTION 191.			NAME OF GUARANTY.
		Arch at sta- tion 22.	Composite at station 74.	Aggregate of section 189.	Arch at sta- tion 143 1/2.	Composite at station 175.	Arch at sta- tion 222.	Aggregate of section 191.			
	Estimate of engineer,.....	\$1,744	\$1,654	\$3,399	\$1,799	\$1,306	\$1,744	\$3,040			
7	Androns, Samuel, Jacob G. Wiley,.....	\$1,637	\$1,650	\$3,077	.....	\$1,296	\$1,511	\$2,806	Adam Passage, George Passage.	
18	....., Nichols, H. Brintnall,	1,598	1,483	3,076	\$1,628	1,436	1,828	3,264	Hamilton White.	
19	.....	1,610	1,667	3,287	1,483	1,187	1,494	2,681	Robert Briggs, Orrin Clark.	
4	Gardner Woodson,.....	.....	.....	.....	1,532	1,208	1,533	2,741	Wheaton.	
16	Smith, W. Waldron, &c.,	.....	.....	.....	.....	1,267	1,480	2,747	Wheaton.	
12	Arthur Lewis,.....	.....	.....	.....	.....	1,476	1,619	3,096	C. A. Wheaton.	
2	.....	1,501	1,741	3,243	.....	1,371	1,826	3,607	David Thomas, J. P. Howell.	
20	d, Patrick Lewis,.....	1,873	2,050	3,923	1,378	1,568	1,874	3,442	Robert Powers, Thomas Van Der Karr.		
14	.....	2,389	2,716	5,104	1,874	2,063	2,776	4,838	W. W. Woodworth, M. D. Hollister.	

PROPOSALS—(CONTINUED.)

No. of proposition as guaranteed.	NAMES OF BIDDERS.	Smo. 192. Composite at Station 205.	Smo. 197. Arch at sta- tion 683½.	SECTION 201.			Smo. 204. Composite at Station 178.	Smo. 205. Composite at Station 197.
				Arch at Sta- tion 907.	Arch at sta- tion 1,029.	Aggregate of section 201.		
	Estimate of engineers.....	\$1,769	\$2,100	\$1,734	\$1,734	\$3,469	\$1,117	1,369
7	Andrews, Samuel, Jacob G. Wiley,.....	\$1,740	\$1,761	.....	.....	.....	.....	.....
8	Bell, Samuel, Eric P. Ward, William S. Bell,	.....	.....	\$1,682	1,587	\$3,269	\$1,099	\$1,351
9	Rabenhack Oliver 2d,.....	.....	2,807	2,490	2,491	4,961	.....	.....
10	Charles Nichols, H. Erintonall.	.....	2,206	1,886	1,886	3,772	.....	.....
11	W.,.....	1,607	1,787	.....	.....	.....	1,200	1,414
12	Charles Collins,.....	2,062	2,130	1,978	2,075	4,053	1,484	1,626
13	, Charles Roberts, A. Shumate,	.....	.....	.....	.....	.....	1,447	1,692
14	Samuel	.....	.....	.....	.....	.....	1,706	.....
15	I A., Gas	1,881	1,878	.....	.....	.....	1,965	2,276
16	Nicholas	.....	.....	1,657	1,642	3,304	1,270	1,517
17	Jacobs, S. P., C. C. Smith	1,835	1,805	1,654	1,654	3,308	1,412	1,578
18	Kaczor, Joseph M., Arth	2,209	1,940	1,788	1,760	3,528	.....	2,087
19	Lester, Moses W., Stephen m. Swetten,	2,122	2,337	1,603	1,681	3,284	1,176	1,409
20	Loach, Edwin B., Albert B. Leach,	.....	1,917	.....	.....	.....	1,312	.....
21	McCartney, Hugh, Edson Rubin,	1,702	1,608	1,432	1,532	3,064	1,267	.....
22	Rosenbrook, Emery,	1,942	1,605	1,417	1,362	2,760	1,467	.....
23	Gage, Wm. Knox, de.,	.....	.....	.....	.....	.....	1,076	.....
24	ard, Patrick Lavin,	2,257	3,314	1,945	1,945	3,890	1,644	.....
25	.....	3,192	.....	.....	.....	.....	.....	.....

Adam Passage, George Passage.
Edson Bladen. S. W. Badlonz.

Irvin Clark.

Schardlen.

O. A. Wheaton.
C. W. Pomeroy. Thomas Y. Howe, jr.
Mason, M. S. Leach.

owell.
Mynderson.
Van Der Karr.
D. Hollister.

ABSTRACT of Propositions for Bridge Abutments—Western Sub-Division.

873

[ASSEMBLY]

No. of Prop. or Station.	NAMES OF BIDDERS.		189		190		NAMES OF GUARANTY.	
			1 Farm.		1 Road.			
	Engineers' estimate,.....		\$1,317		\$2,093			
6	Andrews, Samuel, Jacob G. Wiley,	.....	1,324	1,514	6,707	1,932	Adam Passage, Geo. Passage.	
14	Birchard, Backus, Amos Bixby, Nelson A. Gurney,	.....	1,323	1,523	6,586	1,932	Constant Cook.	
16	Brown, R. H., .....	.....	1,323	1,523	7,527	2,227	Erra Mallett, Peter Tracy.	
24	Breed, Joseph, Charles Nichols, Hiram Brinshall, ..	.....	1,324	1,524	7,117	2,108	Hamilton White.	
1	Compton, Jonas W., .....	.....	1,324	1,524	8,162	2,390	Ebenezer Munson.	
20	Davidson, John, .....	.....	1,324	1,524	5,579	1,619	Thomas J. Richman, Joseph Willing.	
22	Decker, N. H., John B. Mathews, .....	.....	1,371	1,571	7,545	2,035	Hugh McClelland.	
13	Gere, R. Nelson, C. W. Stevens, .....	.....	1,244	1,244	6,547	.....	.....
2	Jacobs, S. P., C. C. Smith, Wm. Waldron, D. Brett,	.....	1,168	1,230	6,127	.....	.....
4	Kason, Joseph M., Arthur Lewis, .....	.....	1,588	1,588	.....	.....	.....
17	Lee, John B., Seranus Britton, J. Vernam, .....	.....	1,535	1,535	.....	.....	.....
23	Learned, E., C. G. Learned, G. V. & A. R. Learned,	.....	.....	.....	.....	.....	.....
3	Martindale, John H., John M. Ferrill, .....	.....	.....	.....	.....	.....	.....
9	M.....	.....	.....	.....	.....	.....	.....
21	M.....	.....	.....	.....	.....	.....	.....
12	Peca, L. Jones, .....	.....	1,168	1,168	.....	.....	.....
5	Roebrook, Emery, .....	.....	1,533	1,533	6,675	1,945	Horace Peck, Joseph Pratt.	
11	Richardson, Phineas, J. Richardson, James Roy, ..	.....	1,290	1,304	6,723	2,030	David Thomas, J. P. Howell.	
18	Storrs, Pellett, .....	.....	1,312	1,293	6,774	1,980	.....
20	Shanahan, J., J.....	.....	1,337	1,337	5,744	1,690	Edwin Eldridge, Samuel Weed.	
19	Van Der Karr, .....	.....	1,167	1,157	5,405	1,631	Royal White, D. McCarthy.	
	.....	.....	1,486	1,486	6,808	2,000	Thomas Van Der Karr, Patrick Levin.	

PROPOSALS—(CONTINUED.)

No of proposals.	NAMES OF BIDDERS.	Section 200.			Sec. 201 Road & Change.	Sec. 204 Road and Change.	NAMES OF GUARANTY.
		1 Road.	1 Farm.	Aggregate of Sec. 200.			
	Engineers' estimate,	\$2,043	\$1,317	\$3,410	\$7,774	\$1,596	
7	Bogardus, W. A. H.,	2,283	3,761	3,761	.....	.....	S. N. Brett, James A. Hovey.
	as Bixby, Nelson A. Garney, ..	1,932	1,323	3,255	7,061	1,249	Constant Cook.
	as Nichols, Hiram Brintnall, ..	2,227	1,896	3,923	8,067	1,568	Erna Mallett, Peter Tracy.
	as Stevens,	1,816	1,394	3,210	6,539	1,478	Hamilton White.
	as Roberts, Amos Shauts, ..	2,386	1,618	4,003	8,773	1,661	Ebenezer Munson.
	as Weed, Edwin Eldridge, ..	.....	.....	.....	.....	1,308	Charles E. Clarke.
	as Mathews,	1,648	.....	.....	.....	1,937	Taylor, Wm. Schardson.
	as W. Steves,	2,035	1,163	2,813	6,903	1,500	L. Storre.
	as C. C. Smith, Wm. Waldron, D. Brett,	1,953	1,371	3,324	7,224	1,416	Joseph Willing.
4	Kasson, Joseph M., Arthur Lewis, ..	1,627	1,235	2,862	7,059	1,376	Hugh McClelland.
17	as G. Learned, J. Varnam,	1,761	1,238	3,007	6,265	.....	George Stevens, Robert Gere.
23	as H., John M. Ferrill,	2,361	1,538	3,909	8,600	.....	S. N. Brett, James A. Hovey.
31	as Edson Bishop,	2,434	1,816	4,270	8,143	.....	Charles A. Wheaton.
9	as John C. Fowler,	2,147	1,499	3,646	7,760	.....	owsley, Wm. Griffe, Jr.
21	as Richard, Phineas, John Richardson, James Ray, ..	1,752	1,274	3,026	6,414	.....	Id A. Dunlap, W. H. Cheever.
12	as Storre, L'ellet, Perdy, White, Smith, Pratt & Shaw, ..	1,615	1,163	2,783	6,910	.....	Clark.
5	as Van Der Karr, Leonard, Patrick Lavin,	1,944	1,635	3,579	7,176	1,388	David Thomas, J. P. Howell.
11	as Van Der Karr, Leonard, Patrick Lavin,	2,021	1,316	3,336	7,150	1,436	Edwin Eldridge, Samuel Weed.
13	as Van Der Karr, Leonard, Patrick Lavin,	1,940	1,283	3,273	7,206	.....	Royal White, D. McCarthy.
25	as Van Der Karr, Leonard, Patrick Lavin,	1,630	1,187	2,818	6,104	.....	Thomas Van Der Karr, Patrick Lavin.
19	as Van Der Karr, Leonard, Patrick Lavin,	2,000	1,496	3,496	7,303	.....

ABSTRACT of propositions for Locks on the Oswego canal.

Left Locks.

No. 1.	No. 2.	No. 3.	Left Locks.				No. 13.	Names of Guaranty.	
\$37,402	\$36,599	\$38,986					\$36,796		
\$30,028	\$32,081	\$36,562	\$27,973	\$27,350	\$33,732	\$39,641	\$36,565	P. Rathbun and John Brower.	
34,185	33,989	34,501			31,720			C. A. Bar and S. S. Ball.	
37,014	36,023	36,868	26,814	26,882	34,230	40,331	36,212	Alfred Bell and Samuel Nwain.	
38,574	41,674	45,139						Constant Cook.	
37,866	37,940	40,618	28,079	28,070	36,076	43,007	38,681	W. Clark, T. R. Horton & W. Kingsbury.	
31,450	33,450	34,721	26,338	26,866	31,949	39,929	34,461	David Litley and John Morris.	
33,610	31,563	33,721	24,013	23,968	28,717	35,360	33,658	H. P. Mills and T. G. Mills.	
34,755	35,534	38,509	26,185	28,335	36,101	46,242	40,100	J. W. Barker and L. W. Conkey.	
39,646	39,600	40,185	30,410	31,852	37,605	44,597	35,935	J. Knickerbocker.	
64,854	68,008	61,882	38,821	38,763	62,707	60,454	57,453	J. Denton and Samuel Douglass.	
44,044	45,818	47,632	31,899	33,302	41,040	52,546	46,024	A. H. Diven and Sam. G. Hathaway, jr.	
36,614	34,898	39,235						C. C. Bradley.	
41,981	41,816	45,939						J. W. Jones.	
42,905	42,147	40,977	28,464	27,923	37,566	43,770			
34,808	38,899	37,713	26,297	26,624	33,543	39,848			
27,506	30,023	29,923						Samuel Hart.	
36,797	35,315	36,576	25,627	27,539	33,170	36,235		Lyton and D. U'lay.	
32,118	33,093	37,796	26,278	27,044	33,212	40,128		E. Case.	
46,922	45,610	45,623	31,744	32,542	44,553	50,606		William Myers.	
31,439	30,237	33,366						H. Coats.	
25,956	25,637	26,804	19,926	21,846	29,085	32,116		Small and R. Powers.	
29,073	30,569	30,421	23,394	23,609	33,402	39,439			
32,494	32,838	34,838							
39,670	39,944	41,136							
33,710	32,284	34,491							
36,286	36,026	39,737	27,744	28,235	34,800	41,287		and Henry Morgan.	
33,419	34,572	38,167						W. Baker.	
34,967	31,326	34,438	25,507	25,205	32,201	38,026		Archibald Hays.	
33,476	33,943	34,781	25,974	26,067	33,090	39,731		Mer.	
			25,236	27,324	33,301			H. Roades.	
								Isaac Denton.	

20 Evans, Bend. & Warren Norton.
 64 Filkins, Cornelius,
 14 Gere, Robert & Co.,
 19 Hart, A. P., James Bates, S. Avery, & Co.,

23	Dagobert, James,	41,544	30,976	40,709	27,051	27,702	37,349	45,147	30,001	W. E. Scott and Milton Morrey.
24	James, S. J. Fulton, & W. M. Roberts,	..	..	..	..	..	..	..	30,004	S. Jones, J. Fulton & W. M. Roberts.
25	Kimball, W., W. Green, M. Klingley, &c.,	25,545	37,039	39,192	24,167	24,210	32,819	62,378	24,929	Earl, Bangs, Howland & Beverly.
26	Kennan, J. M. & Arthur Lewis,	30,353	30,406	29,068	24,807	23,143	31,580	..	..	Charles A. Weston.
27	Kernan, H. O.,	33,863	32,479	34,554	22,856	26,160	39,711	27,801	32,442	S. N. Kenyon & G. P. Kenyon.
28	Lewis, W. H.,	34,375	30,878	39,442	25,019	29,022	30,406	43,122	34,293	W. Read, C. H. Rubin & H. M. Costa.
29	Leah, M. W. & S. M. Jackson,	24,846	32,481	33,068	..	..	..	..	..	C. W. Pomeroy & T. J. Hunt, Jr.
30	McGovern, T., Wm. Lee & Patrick Robill,	66,926	56,311	66,791	46,939	46,743	50,907	79,057	63,862	G. A. B. Ross, and A. & J. Myers.
31	Myers, Amelia & Wm. Johnson, .....	..	..	..	31,980	31,300	38,715	45,417	40,439	T. P. Davis & H. N. Van Buren.
32	McDonald, James,	31,847	30,500	32,244	23,599	24,134	30,108	30,665	31,836	Thurlow Weed.
33	Marlett, J. W., M. B. Ludington, &c.,	..	..	..	25,216	26,671	31,069	30,667	..	J. B. Van De Werber & B. H. Singer.
34	Mallett, E. & Levi Curtis,	29,692	37,913	37,723	25,487	25,480	32,591	39,882	37,997	J. D. Lee & Peter Dray.
35	McDonald, A. P.,	42,067	50,604	60,786	30,000	30,488	37,172	44,430	46,731	Edward P. Cowles.
36	Mallery, James H.,	47,454	48,719	51,057	..	33,376	45,492	58,427	46,975	Home Ramsdell & David Moore.
37	Nichols, C., H. Brantwell, & Jas. Reed, ..	20,298	29,439	32,100	24,514	27,397	33,510	40,799	33,962	Ham White.
38	Niven, A. H.,	47,106	42,902	43,833	29,267	29,679	37,715	46,707	43,929	P. P. Pratt & Jackson Harman.
39	Wichita, John W.,	37,626	27,794	39,640	30,317	31,286	36,083	43,412	39,640	John F. Kishbore.
40	..	34,036	32,336	36,509	25,420	..	..	..	..	David Britt & George Hawkins.
41	..	31,995	33,755	34,734	..	..	..	..	..	J. W. Perkins & George Wells.
42	..	34,391	37,005	37,264	25,206	25,013	32,935	49,238	36,273	Horace Peck & Joseph Pratt.
43	..	39,816	38,023	39,759	..	..	..	..	..	Burtwick, Jackson, Burton & Waggoner.
44	..	53,692	50,236	47,615	28,971	28,656	36,291	45,216	39,126	J. G. Porter & G. W. Davis.
45	..	32,465	32,122	31,049	25,774	25,111	32,067	39,673	34,445	Sam'l Voorhees & D. J. M. Martin.
46	..	31,243	29,966	31,333	24,308	24,408	30,875	38,824	..	David Thomas & J. P. Howell.
47	..	36,342	36,316	41,496	..	..	..	..	..	A. M. Kenyon & G. F. Ely.
48	..	33,836	33,264	37,665	24,567	24,200	32,326	37,364	36,636	S. Belding Jr. & A. Sheldon.
49	..	34,430	34,122	33,861	26,049	26,200	32,970	40,415	..	P. G. Hadley & E. Myrders.
50	..	32,979	31,831	34,874	..	..	..	..	..	..
51	..	42,148	40,580	41,301	28,305	29,092	36,316	44,124	..	..
52	..	35,524	32,894	34,655	24,918	25,494	30,245	39,083	..	..
53	..	33,146	31,892	34,512	..	..	..	..	..	..
54	..	26,329	25,522	29,219	22,430	22,245	27,307	36,003	..	..
55	..	..	..	..	..	..	..	..	..	..
56	..	35,462	38,427	36,498	..	..	..	..	..	..
57	..	41,000	40,804	43,406	29,820	27,360	30,230	42,167	..	..
58	..	33,213	28,280	31,192	24,313	25,946	30,923	36,339	..	..
59	..	25,509	23,028	24,467	24,456	24,456	31,161	36,716	..	..
60	..	30,140	29,670	33,849	25,157	26,082	32,001	37,971	..	..
61	..	30,619	29,490	32,084	24,610	26,114	30,486	39,830	..	..
62	..	21,726	21,130	30,631	..	..	28,331	36,267	..	..

& E. H. Sage.

Partly.

E. Sage.

Erill & S. Clark.

Howell.

Gerr.

Harroun.

Livington.

..

PROPOSALS--(Continued.)

PROPOSALS—(Continued.)

17
21
23
25
41
43
47
57
60
68
75
78
80
12
7
26
71
86
81
29
62
72
66
34
19
22
63
21
59
42
24
3

NAMES OF BIDDERS

Engineer's estimate.

Andrews, T. F.,	327,855	327,800	.....	.....	.....	.....	A. E. Cromwell.
Ames, Cheney & A. E. Cromwell,	30,611	31,993	.....	.....	.....	.....	Stephen Bentley.
Brunson, Albert,	28,345	29,710	819,478	839,538	.....	.....	P. Rathbun & J. Brewer.
Ball, Ashley H.,	.....	.....	.....	.....	.....	.....	C. A. Barr & S. B. Ball.
Britton, J. W. & Edward Swain,	29,250	31,855	21,448	23,611	.....	.....	Alfred Ball & Samuel Swain.
Becker, B., E. Cole & S. E. Heigh,	28,051	31,364	.....	.....	.....	.....	W. Clark, T. R. Horton & W. Kingsley.
Borden, Joseph & W. H. Bennett,	28,104	27,537	18,470	.....	.....	.....	D. Utley & John Morris.
Baldwin, William,	25,394	25,899	21,343	23,411	.....	.....	H. P. Mills & T. G. Mills.
William,	32,844	32,739	.....	.....	.....	.....	J. W. Barker & L. W. Conkey.
H. B.,	31,401	32,728	28,391	25,344	.....	.....	J. Knickerbocker.
P. & Wm. M. Hill,	42,771	47,145	20,922	23,728	.....	.....	J. Boston & S. Douglas.
R. & Wm. W. Morris,	38,342	37,422	.....	.....	.....	.....	A. S. Divent & S. G. Hathaway Jr.
m. H. & Alex. Anderson,	34,430	38,745	.....	.....	.....	.....	Lewis Birdsell.
Card, Henry & T. E. Buchanan,	.....	29,041	.....	.....	.....	.....	E. Snell, W. H. Williams & Henry East.
Cass, C. G. & J. W. Baker,	27,123	31,959	19,923	22,123	.....	.....	J.
Cromwell, A. E.,	32,681	.....	22,802	25,816	.....	.....	lyden & David Utley.
Cass, S. F., M. L. Lee & A. M. Farwell,	37,971	32,874	23,499	25,407	.....	.....	Cass.
Coleman, Wm., J. N. Comstock, & Co.,	37,985	39,312	.....	.....	.....	.....	Matthew S. Vetch.
DeGra., C. J. & Henry,	23,951	24,283	17,854	19,123	.....	.....	H. C. Kenyon & H. H. Coats.
Duna, Peter,	24,250	26,801	21,067	22,124	.....	.....	H. Swain, H. Brinsell & Robert Fenn.
Fatabrook, T. D., T. N. Chebro & H. Fish,	29,071	34,921	21,314	23,178	.....	.....	C. G. Case & J. W. Baker.
Filkins, Cornelius,	24,377	28,651	19,532	19,934	.....	.....	Nicholas A. Scheyler.
Gere, Robert & Co.,	37,007	39,167	20,573	22,692	.....	.....	George Stevens & H. Rhoads.
Hart, A. P., J. Barnes, S. Avery & N. Palmer,	41,276	39,942	19,106	21,247	.....	.....	Oliver Breed & Daniel Denison.
Ingraham, Jonas,	36,914	.....	23,200	24,778	.....	.....	W. H. Scott & Milton Morey.
Jones, Samuel, Jas. Fenton & W. M. Roberts,	34,801	.....	.....	.....	.....	.....	S. Jones, J. Fenton & W. M. Roberts.
Kimball, V., Wm. Gove, N. Kingsley, & Co.,	37,254	.....	19,868	23,149	.....	.....	Earl, Bangs, Howland & Sweetser.
Kennedy, J. M. & Arthur Lewis,	37,640	.....	19,640	21,600	.....	.....	Charles A. Whetton.
Lee, B. G.,	37,209	32,776	20,194	21,607	.....	.....	S. N. Kenyon & G. P. Kenyon.
McGee, T., Wm. Lee & Patrick Rehill,	48,575	54,678	18,113	20,911	.....	.....	W. Reed, C. H. Rubin & H. H. Coats.
.....	63,489	.....	27,128	41,034	.....	.....	G. & B. Ross and A. & J. Myers.

PROPOSALS.--(Continued.)

ABSTRACT OF PROPOSITIONS FOR SECTION No. 38.

No. of
prop.

8 Ames, Cheesney, and A E Cromwell,.....	42,275	Stephen Bentley.
3 Baldwin, Wm.,.....	46,520	H. P. Mills and T. G. Mills.
9 Bronson, A.,.....	37,005	P Rathbun and John Brower.
12 Bradshaw, H B	42,395	J Knickerbacker.
20 Ball, Ashley H.	43,035	C A. Burr and S S Ball.
4 Case, C G, and J W Baker,.....	51,310	T Stranahan.
17 Case, Samuel F, M L Lee, and A M Farwell,...	58,060	Er E Case.
23 De Graw, C J and Henry,.....	31,860	K H H Coats.
2 Kenyon, R C,	44,250	K G. P. Kenyon.
5 Loomis, Willard,.....	40,329	ter Reed, C H Sabin, and H H Coats.
6 McDonald, A P,.....	42,635	ard P. Cowles.
15 Mallory, James H,.....	70,325	rummer Ramsdell and David Moore.
1 Norris, A R,.....	42,710	Benj. Frazee and Charles Vroman.
10 Nichols, John H,.....	39,995	John N. Rathbone.
11 Nelson, J M,	44,465	Wm. Baldwin and H. P. Mills.
13 Norton, Warren,.....	49,290	A. D. Barber and A. Hess.
7 Peck, L J,.....	48,580	Horace Peck and Joseph Pratt.
16 Peck, E W, and Charles Sherrill,.....	48,675	W. J. Stevens and E. Palmer.

BIDDER LIST FOR SECTION No. 38.

AMT of Bid.	NAMES OF GUARANTY.
245,000	
42,275	Stephen Bentley.
46,520	H. P. Mills and T. G. Mills.
37,005	P Rathbun and John Brower.
42,395	J Knickerbacker.
43,035	C. A. Burr and S S Ball.
51,310	J S T Stranahan.
58,060	E Farwell and C E Case.
31,860	R C Kenyon and H H Coats.
44,250	S N Kenyon and G. P. Kenyon.
40,329	Walter Reed, C H Sabin, and H H Coats.
42,635	Edward P. Cowles.
70,325	Homer Ramsdell and David Moore.
42,710	Benj. Frazee and Charles Vroman.
39,995	John N. Rathbone.
41,465	Wm. Baldwin and H. P. Mills.
40,980	A. D. Barber and A. Hess.
48,380	Horace Peck and Joseph Pratt.
48,675	W. J. Stevens and E. Palmer.

PROPOSALS—(CONTINUED.)

No. of prop.	NAMES OF BIDDERS.	Am't of bid.	NAMES OF GUARANTY.
	Engineers' estimate,	\$46,596	
14	Sage, C H, M E Luddington, and A T Dunham.	47,725	L McChesney and Royal Ball.
18	Stevens, Philo,	44,315	Moses P. Hatch.
21	Smith, John C,	48,875	Benj. Frazee and Selah Smith.
22	Sharp, John L, and N J Taft,	36,795	S N Kenyon and Geo. F Sharp.
19	Tibbals, S J,	45,190	A M Nelson and Elliott Harroune.
25	Van Wagener, Frederick, and Anson Terry,	43,710	J E Dutton and A C Livingston.
24	Williams, W. H.,	44,485	Enoch Snell and W J. Butler.

ABSTRACT OF PROPOSITIONS FOR VALVE GATES.

No. of prop.	NAMES OF BIDDERS.	Am't of bid.	NAMES OF GUARANTY.
	Engineers' estimate,.....	\$8,250	
6	Bradley, C C & Co.,	6,880	Vivus W Smith.
1	Dunham, A. T., B H Sage, and J B Chollar,	5,561	M. Witbeck and E H St. John.
5	McGill, John, jr.,.....	6,109	James Roy and A. Dunlap.
9	Pruyn, R H, and G. Davidson,	7,776	C B Lansing and W W Frothingham.
4	Seymour, Erri, and Sandford Adams,	7,855	David Utley.
7	Seymour, John F., and George W. Wood,	7,871	H Seymour and T C Clark.
2	Wheaton, Charles A.,	5,563	J M Kasson.

WESTERN DIVISION.

BIDS FOR WORK,

LET AT ALBANY, NOVEMBER 18TH, 1851.

ENLARGEMENT OF THE ERIE CANAL—WESTERN DIVISION.

Bids on section work from 207 to 315 inclusive, received at letting, Nov. 18, 1851.

No. of proposition.	NAMES OF BIDDERS.	No. 207.		No. 211.	
	Engineers' estimates,.....	\$114,924		\$20,764	
81	Angell, B. F.,.....	93,039	29,630	30,263	32,687
672	Akenhead, T. & Co.,.....	103,749	23,157	23,685	26,240
79	Burrell, T.,.....	97,080	26,622	27,403	30,376
474	Britton, J. W.,.....	99,871	25,276	26,413	27,840
1,207	Barker, W. & Co.,.....	95,589	.....	.....	.....
1,177	Bull, S. & S. S.,.....	88,615	.....	.....	.....
1,194	Brayton & Morris,.....	159,856	41,490	42,795	48,310
1,023	Barrv. M. & Co.,.....	145,724	29,566	29,965	32,971
770	B.,.....	88,413	25,191	25,357	26,901
995	.....	138,984	.....	.....	.....
1,201	& Co.,.....	.....	26,385	29,709	30,747
962	& Co.,.....	.....	.....	27,892	30,471
864	.....	102,507	25,655	26,425	29,422
821	C. T. & Co.,.....	77,388	25,014	25,677	27,561
867	Co.,.....	84,654	22,336	22,943	24,757
832	F. & Co.,.....	99,267	29,166	.....	.....
370	.....	105,210	24,028	23,725	25,611
647	.....	124,750	23,326	23,348	25,537
796	.....	103,172	25,825	26,482	27,484
641	Co.,.....	100,578	.....	.....	.....
1,180	F.,.....	110,542	23,877	24,188	25,566
					27,686

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 287.	No. 288.	No. 289.	No. 310.	No. 311.
	Engineers' estimate,.....	\$174,924	\$28,600	\$28,220	\$30,456	\$29,764
1,051	Church, W. S.,.....	103,453	25,293	25,859	28,443	30,378
1,026	Candee, D. & Co.,.....	71,873	21,851	23,851	25,614	24,145
192	Clark, P. W.,.....	106,605	24,057	24,360	26,291	27,135
670	Caswell, N. B.,.....	103,398	25,095	24,656	28,466	27,463
284	Clark, E.,.....	106,622	24,648	24,945	27,109	28,162
1,241	Clary, W. & Co.,.....	95,150	30,753	80,709	34,977	34,777
1,027	Coleman, W. & Co.,.....	81,311	26,007	26,541	.....	.....
888	Decker, N. H.,.....	97,467	27,595	28,070	30,336	31,718
910	Dodge, J. A. & Co.,.....	95,106	21,196	23,158	23,491	25,731
200	Demmon, J. M.,.....	108,388	28,949	29,292	26,074	28,310
1,035	De Graw, C. J. & H.,.....	55,472	.....	.....	.....	.....
408	Ellicott & Bently,.....	90,682	25,994	26,772	29,434	30,180
422	.....	105,653	24,425	24,925	26,784	27,920
1,224	C. & Co.,.....	.....	.....	.....	33,524	31,699
1,051	.....	.....	23,266	25,543	27,733	27,499
46	Grant, L. A. G. B.,.....	97,765	26,622	27,403	30,376	30,929
255	Goodrich, J. W.,.....	102,493	22,876	22,786	23,674	23,806
256	Howell, R. R. & Co.,.....	104,789	25,564	25,722	27,626	28,898
1,088	Houghtaling, A.,.....	111,866	25,326	22,623	25,920	23,280
693	Hart & Spear,.....	129,971	32,928	34,774	.....	.....
1,006	Hawley, A.,.....	85,462	37,655	28,260	29,956	32,482
144	Havens, J.,.....	107,958	25,387	26,190	28,551	24,589

[illegible]

BIDS ON SECTION WORK—(CONTINUED.)

VALUES OF BIDDERS.

	No. 207.	No. 208.	No. 209.	No. 210.	No. 211.
.....	\$174,924	\$28,600	\$28,220	\$30,456	\$29,764
.....	103,453	25,293	25,859	28,443	30,378
.....	71,873	21,851	25,851	25,614	24,145
.....	106,605	24,057	24,360	26,291	27,135
.....	103,398	25,095	24,656	26,466	27,463
.....	106,622	24,648	24,945	27,109	28,162
.....	105,150	30,753	30,709	34,977	34,777
.....	.....	26,007	26,541	.....	.....
.....	.....	27,595	28,070	30,336	31,718
.....	.....	1,196	22,158	23,491	25,731
.....	.....	.....	29,292	26,074	28,310
.....
.....	.....	.....	.....	.....	30,180
.....

No. 207.	No. 208.	No. 209.	No. 210.	No. 211.
103,453	25,293	25,859	28,443	30,378
71,873	21,851	25,851	25,614	24,145
106,605	24,057	24,360	26,291	27,135
103,398	25,095	24,656	26,466	27,463
106,622	24,648	24,945	27,109	28,162
105,150	30,753	30,709	34,977	34,777
.....	26,007	26,541	.....	.....
.....	27,595	28,070	30,336	31,718
.....	1,196	22,158	23,491	25,731
.....	.....	29,292	26,074	28,310
.....
.....	.....	.....	.....	30,180
.....

299	Ward, H. G., ..
1, 184	Webster, J. & Co., ..
165	Wright, P. D., ..
687	Williams, A. B. & Co., ..
1, 219	Woolson & Kelts, ..

BIDS ON SECTION WORK—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 207.				No. 208.				No. 209.				No. 210.				No. 211.			
		Engineers' estimates,.....				\$114,924				\$28,600				\$28,220				\$30,456			
1,220	Rowell & Kingsbury	94,460				.....				.....				.....				.....
637	Rogers & Layton .....	.....				.....				.....				.....				.....
712	Richmond Van R.	107,305				.....				.....				.....				.....
238	Stage J N.	105,894				26,801				26,782				.....				.....
195	Spencer U.	102,702				25,645				26,410				28,417				29,370			
768	Sherman B.	110,700				28,282				29,094				31,498				33,163			
794	Sherman J W.	103,172				25,825				26,482				27,484				29,277			
1,208	Sackett W A & Co.	99,601				.....				.....				.....				.....
1,191	Sloane W M.	112,120				37,824				38,940				42,737				43,772			
643	Snedeker A.	106,313				26,712				26,480				28,386				29,194			
1,247	Storrs H E & Co.	111,092				29,693				30,409				32,665				34,497			
1,223	Stannard & Co. ....	.....				21,700				32,546				24,050				.....		
558	Turner Otis.	106,548				30,493				31,496				34,462				34,677			
395	Vernam, J. & Co.,	102,862				25,811				26,610				28,815				29,795			
719	Van Derkarr, L. & Co.,	106,497				37,547				37,790				42,222				.....		
1,236	Van Slyck, A. & Co.,	106,202				21,482				22,052				24,121				24,232			
271	Voorhees, W. V. & Co., ....	.....				24,686				25,680				27,385				27,250			
338	Williams, L. & Co.,	85,295				18,997				19,381				20,674				19,864			
784	Woodworth, S.,	112,625				27,449				27,812				28,145				30,731			
1,121	Wright, J. T. & Co.,	108,172				23,225				25,852				27,484				29,277			

299	Ward, H. G. & Co.,	77,065	24,411	25,227	22,700	28,398
1,184	Webster, J. & Co.,	240,087	25,819	26,387	29,822	30,017
155	Wright, P. D.,	122,295	27,870	28,079	32,250	31,318
687	Williams, A. B. & Co.,	.....	24,488	24,721	28,584	28,745
1,219	Woolson & Kelts,	.....	.....	.....	.....	30,067

BIDS ON SECTION WORK—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 307.	No. 308.	No. 309.	No. 310.	No. 311.
	Engineers' estimates,.....	\$114,924	\$22,600	\$28,220	\$30,456	\$32,764
1,220	Rowell & Kingsbury	94,460	.....	.....	.....	.....
637	Rogers & Layton.....	.....	.....	.....	.....	.....
712	Richmond Van R.....	107,305	.....	.....	.....	.....
238	Stage J N.....	105,894	26,801	26,782	.....	.....
195	Spencer U.....	102,702	25,645	26,410	28,417	29,370
768	Sherman B.....	110,700	28,282	29,094	31,498	33,163
794	Sherman J W.....	103,172	25,825	26,482	27,484	29,277
1,208	Sackett W A & Co.....	99,601	.....	.....	.....	.....
1,191	Sloane W M.....	112,120	37,824	38,940	42,737	43,772
643	Snedeker A.....	106,313	26,712	26,480	28,386	29,194
1,247	Storrs H E & Co.....	111,692	29,698	30,409	32,665	34,497
1,223	Stannard & Co.....	.....	21,700	22,546	24,050	.....
558	.....	106,548	30,493	31,496	34,462	34,677
395	& Co.,.....	102,862	25,811	26,610	28,815	29,795
719	r, L. & Co.,.....	106,497	37,547	37,790	42,222	.....
1,226	Van Slyck, A. & Co.,.....	106,202	21,482	22,052	24,121	24,232
271	Voorhees, W. V. & Co.,.....	.....	24,686	25,630	27,385	27,250
338	Williams, L. & Co.,.....	85,295	18,997	19,381	20,674	19,864
784	Woodworth, S.,.....	112,625	27,449	27,812	28,145	30,731
1,121	Wright, J. T. & Co.,.....	103,172	28,235	25,852	27,484	29,277

299	Ward, H. G. & Co.,	77,065	24,411	25,227	22,700	28,398
1,184	Webster, J. & Co.,	240,087	25,819	26,387	29,822	39,017
155	Wright, P. D.,	122,295	27,870	28,079	32,250	31,318
687	Williams, A. B. & Co., .....	.....	24,488	24,721	28,584	28,745
1,219	Woolson & Kelts, .....	.....	.....	.....	.....	30,067

BIDS ON SECTION WORK—(CONTINUED.)

No. of position.	NAMES OF BIDDERS.	No. 212.	No. 213.	No. 214.	No. 215.
	Engineers' estimate,.....	\$17,817	\$23,039	\$29,004	\$27,575
31	Angell, B. F.,.....	17,213	25,856	30,922	30,381
672	Akenhead, T. & Co.,.....	.....	22,174	26,846	26,362
79	Burrell, T.,.....	15,989	23,632	27,614	28,778
414	Britton, J. W. & Co.,.....	12,792	22,788	27,624	27,326
1,271	Barker, C. C. & Co.,.....	13,284	22,841	25,866	33,695
1,194	Brayton & Morris,.....	22,244	17,513	43,552	43,615
1,023	Barry, M. & Co.,.....	13,151	26,467	30,752	29,312
770	Bradshaw, H. B.,.....	15,139	23,136	26,552	26,176
952	Barton, D. R. & Co.,.....	15,784	24,735	27,589	26,066
170	Beebee, J. L. & Co.,.....	.....	20,432	14,360	22,160
867	Candee, W. & Co.,.....	14,439	19,703	22,601	21,662
370	Clark, J. W.,.....	14,170	20,392	23,701	23,188
647	Cady H. & Co.,.....	11,907	24,101	26,827	25,926
796	Church, R.,.....	16,101	21,646	25,368	24,745
1,180	Compson, W.,.....	14,574	23,098	.....	30,075
1,057	Church, W. S.,.....	16,456	22,829	26,264	25,685
1,026	Candee, D. & Co.,.....	12,738	18,781	21,849	22,087
1,192	Clark, P. W.,.....	14,260	20,807	24,031	23,503
170	Caswell, N. B.,.....	14,462	21,630	24,081	24,128
284	Clarke, E.,.....	14,524	21,402	24,927	24,458
1,241	Cleary, Wm. & Co.,.....	18,814	28,117	32,178	30,523

364	Clark, K. S. & Co.,	.....	.....	27,617	26,870
888	Decker, N. H.,	.....	13,880	28,296	27,804
200	Demmon, J. M.,	.....	15,753	21,532	20,101
910	Dodge, J. A. & Co.,	.....	.....	21,047	20,412
408	Ellicott, J. & Co.,	.....	15,714	26,710	25,843
422	Ennis, R.,	.....	16,126	22,472	22,596
1,224	Everett, G. C. & Co.,	.....	18,799	27,508	26,037
714	Foster, O. & Co.,	.....	.....	24,702	24,066
46	Grant, L. A. G. B.,	.....	15,987	27,614	28,778
255	Goodrich, J. W.,	.....	.....	24,007	23,441
340	Holmes D.,	.....	13,564	21,756	.....
456	Howell, R. R. & Co.,	.....	17,023	25,971	25,512
1,088	Houghtailing, A.,	.....	14,529	21,559	22,473
679	Hall & Andrews,	.....	13,975	.....	.....
1,006	Hawley, N.,	.....	15,086	28,698	28,105
144	Havens, J.,	.....	14,201	22,907	23,246
767	Hart, J. & Co.,	.....	.....	20,637	20,114
1,200	Hart & Palmer,	.....	.....	19,656	20,438
849	Hart, M. & Co.,	.....	.....	19,546	20,484
285	Hackett, S.,	.....	.....	16,547	15,880
846	Jones, S.,	.....	13,264	27,266	25,801
1,225	Kingsbury, F. H.,	.....	15,296	.....	27,135
233	Knowles, J. jun.,	.....	.....	26,672	.....
376	Leach, J. & Co.,	.....	14,490	23,394	22,916
973	Law, Geo.,	.....	13,445	28,213	26,468
637	Layton & Rogers,	.....	15,601	25,708	25,179
34	Moore, C. H. & Co.,	.....	15,116	32,620	31,399

BIDS ON SECTION WORK—(CONTINUED.)

No. of 1 postals	No. 213.	No. 214.	No. 215.
	\$23,039	\$29,004	\$27,575
90	18,192	20,216	20,085
1,10	21,163	24,368	22,948
1,06	.....	.....	.....
45	20,452	23,514	23,550
12	19,940	22,941	.....
1,040	24,863	25,777	26,666
289	18,024	20,771	.....
839	.....	27,880	26,756
1,156	.....	23,590	22,830
1,063	.....	27,700	26,845
760	16,675	19,710	10,558
1,235	.....	28,718	.....
935	.....	28,279	27,985
575	14,832	33,431	32,388
1,056	14,218	21,563	21,788
624	14,075	18,414	18,405
704	14,461	26,980	25,894
641	.....	27,031	26,388
368	17,795	22,336	23,012
380	14,093	22,117	24,075
195	18,361	27,233	28,028

768	Sherman, B.,	17,866	25,100	28,756	28,050
794	Sherman, J. W.,	16,101	21,646	25,368	24,746
1,196	Sloane, W. M.,	20,213	34,778	39,036	37,693
643	Snedaker, A.,	17,190	26,116	27,080	26,858
1,247	Storrs, A. G. & Co.,	15,593	26,830	30,247	29,128
1,080	Sutherland, A. & Co., .....	.....	.....	24,960	23,884
558	Turner, Otis,	17,343	27,626	31,296	30,124
395	Vernam, J. & Co.,	12,913	22,976	27,420	26,744
719	Van Der Karr, L. & Co.,	18,779	33,940	34,619	32,760
271	Voorhies, W.,	14,703	22,163	25,067	24,528
108	Van Amburgh, J., .....	.....	22,972	27,195	27,236
1,236	Van Slyck, A. & Co., .....	.....	18,788	22,562	21,527
388	Williams, L. & Co.,	11,607	14,044	15,784	19,400
155	Wright, P. D.,	15,848	24,660	28,222	26,646
784	Woodworth, S.,	21,185	22,766	27,020	24,606
1,219	Woolson & Kelts,	14,766	22,971	25,127	.....
1,121	Wright, J. T. & Co.,	16,104	21,646	25,638	24,746
687	Williams, A. B. & Co.,	15,052	21,601	27,159	24,641
299	Wards, D. & Co.,	13,853	19,765	23,694	23,083
542	Wagner, D. & Co., .....	.....	.....	.....	26,359

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 216.		No. 217.		No. 218.	
		Engineers' estimate,.....		\$42,122		\$46,984	
31	Angell, B. F.,.....	42,482		42,607		61,714	
672	Akenhead, T. & Co.,.....	37,334		38,503		54,010	
464	Akenhead, W. & R.,.....	36,280		39,824		55,762	
79	Burrell, T.,.....	41,042		40,980		59,923	
474	Britton, J. W. & Co.,.....	40,784		54,268		57,880	
1,201	Barker, C. C. & Co.,.....	50,621		.....		84,515	
1,194	Brayton & Morris,.....	58,132		54,859		62,876	
1,023	Barry, M. & Co.,.....	42,575		46,470		.....
770	Bradshaw, H. B.,.....	38,213		38,790		49,386	
952	Barton, D. R. & Co.,.....	40,797		43,439		57,386	
170	Beebe, J. L. & Co.,.....	34,719		38,908		47,956	
1,207	Barker, W. & Co.,.....	.....		41,796		64,224	
1,177	Ball, S. & S. S.,.....	.....		40,476		54,716	
364	Clark, S. & Co.,.....	40,054		.....		60,116	
867	Candee, W. & Co.,.....	33,067		34,538		47,187	
370	Clark, J. W.,.....	34,412		36,326		50,457	
647	Cady, H. & Co.,.....	39,071		40,620		55,672	
796	Church, R.,.....	39,233		41,045		56,706	
1,180	Compson, J. W.,.....	44,958		49,792		63,951	
1,057	Church, W. S.,.....	38,746		40,746		55,951	
1,026	Candee, D. & Co.,.....	32,030		35,321		43,813	

192	.....	35,370	37,780	51,742
670	.....	35,442	39,688	51,957
284	.....	36,718	39,254	33,052
1,241	.....	44,898	41,356	Two bids.
631	.....	48,756	47,832	64,185
1,027	.....	.....	41,148	56,051
1,002	.....	.....	.....	51,868
888	.....	41,854	46,049	64,330
910	.....	32,194	31,683	51,445
200	.....	29,122	.....	.....
1,035	H., .....	.....	26,338	35,914
408	.....	38,615	38,737	56,129
422	.....	33,083	30,980	45,924
1,224	Co., .....	.....	.....	56,460
714	.....	34,344	41,318	49,225
1,051	.....	34,802	38,896	.....
255	.....	34,559	38,869	56,410
46	B.,	41,042	40,980	59,923
456	Co.,	37,677	.....	.....
767	.....	36,267	37,757	42,182
1,088	.....	31,377	36,143	44,102
1,006	.....	39,847	40,494	57,863
285	.....	24,179	24,057	34,266
144	.....	31,969	35,804	48,970
340	.....	31,900	34,844	51,747
679	.....	32,510	39,332	.....
1,200	.....	.....	.....	39,325

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition	No. 216.	No. 217.	No. 218.
	\$42,122	\$46,984	\$62,469
844	.....	.....	42,165
846	36,926	40,925	56,970
833	37,195	40,143	55,565
35	.....	40,208	51,528
376	33,131	42,140	49,129
973	39,675	44,709	59,734
487	49,831	45,079	58,307
466	42,334	48,995	62,996
498	.....	38,258	51,736
34	45,862	47,665	65,809
839	39,917	41,891	56,818
901	29,362	36,591	40,816
1,102	34,234	36,990	49,897
1,156	33,550	37,260	45,478
458	28,612	42,066	56,116
1,048	38,698	43,292	54,318
1,209	35,680	36,836	51,509
451	.....	45,221	57,706
1,061	.....	43,724	68,638
66	.....	.....	42,859
289	.....	.....	41,749
	Moore, C. H. & Co.,.....		
	Marsh, W. N.,.....		
	Mills, T. G. & W.,.....		
		
	Miller, J.,.....		
	Matthews, J. B. & Co.,.....		
	McCartney, J. & Co.,.....		
	Martindale, J. H. & Co.,.....		
	McGovern, T. & Co.,.....		
	Mirlock, J. & Co.,.....		
	Moore, W. B.,.....		

1,063	Nichols, J. H.,.....	39,670	38,280	48,324
760	Nichols, C. & Co.,.....	32,356	40,238	49,445
1,189	Nelson, R. & Co.,.....	33,066	35,059	46,480
1,235	Niven, A. H.,.....	.....	46,814	61,660
935	Olney & Brill,.....	38,452	37,985	53,356
575	Peck, L. J.,.....	47,320	49,752	65,739
1,056	Pettys, B.,.....	31,943	37,857	43,803
624	Plumbley, G. & Co.,.....	27,246	39,196	39,783
704	Price, E. B. & Co.,.....	42,591	38,033	58,957
1,182	Peacock, J. & S. E.,.....	34,003	35,508	48,011
1,017	Peacock, J. & Co.,.....	85,475	37,296	48,200
886	Richman, T. & Co.,.....	36,269	40,436	56,625
641	Rogers, J. C.,.....	40,218	45,528	58,701
368	Rogers, J.,.....	33,948	40,542	50,930
820	Riley, S. & Co.,.....	29,276	28,746	41,774
665	Richmond, Van R.,.....	35,233	39,112	53,470
195	Spencer, U.,.....	40,847	57,161	54,926
768	Sherman, B.,.....	44,293	46,221	64,024
794	Sherman, J. W.,.....	39,233	44,045	56,706
1,195	Sloane, W. M.,.....	54,904	56,863	78,576
1,680	Sutherland, A. & Co.,.....	34,125	38,301	47,153
643	Snedaker, A.,.....	42,442	44,279	58,178
1,247	Storrs, A. G. & Co.,.....	43,605	40,235	55,579
1,047	Sherrill, J. H. & Co.,.....	.....	49,961	62,038
558	Turner, Otis,.....	45,445	46,809	65,486
395	Vernam, J. & Co.,.....	39,356	44,022	58,540
108	Van Amburgh, J.,.....	41,600	44,618	57,011

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 316.	No. 317.	No. 318.
	Engineers' estimate,.....	\$42,122	\$46,984	\$62,469
719	Van Der Kart, L. & Co.,.....	48,440	48,216	66,433
271	Voorhies, W.,.....	36,209	40,032	53,972
1,236	Van Slyck, A. & Co.,.....	35,478	36,590	47,196
93	Van Valenburgh, D. A. & Co.,.....	.....	40,435	56,360
338	L. & Co.,.....	28,722	31,730	37,311
155	D.,.....	38,947	38,251	55,330
542	D. & Co.,.....	39,270	41,093	56,746
784	th, S.,.....	41,793	42,784	58,105
1,131	T. & Co.,.....	39,235	41,045	56,706
687	A. B. & Co.,.....	37,178	42,022	56,146
299	D. & Co.,.....	31,455	38,240	51,020
433	Webster, A.,.....	.....	.....	57,093

BIDS FOR SECTION WORK CONTINUED.

Engineers' estimate,	No. of proposition.	NAMES OF BIDDERS.	No. 228.		No. 229. -	
			\$34,582		\$31,369	
672	Akenhead, T. & Co.,	27,453	23,433		
464	Akenhead, W. & B.,	29,463	26,268		
79	Burrell, T.,	33,528	42,382		
474	Britton, J. W. & Co.,	29,758	26,447		
1,201	Barker C. C. & Co.,	30,133	27,080		
770	" H. B.,	29,036	27,195		
952	D. R. Co.,	32,030	28,637		
170	Neese, J. L. & Co.,	28,674	25,493		
117	Barney, B. G. & Co.,	28,926	26,211		
645	Barnard, G. W.,	30,159	27,570		
867	Candee, W. & Co.,	28,381	25,627		
370	Clark, J. W.,	27,645	24,770		
647	Cady, H. & Co.,	32,549	28,720		
796	Church, R.,	31,375	27,840		
1,037	Church, W. S.,	31,378	27,617		
1,626	Candee, D. & Co.,	26,106	23,177		
192	Clark, P. W.,	28,575	25,321		
670	Caswell, N. B.,	29,180	26,515		
284	Clarke, E.,	29,527	26,465		
631	Cochrane, J. & Co.,	39,653	.....	
763	Coleman, W. & Co.,	28,979	26,343		
1,002	Corbett, M.,	31,148	25,599		

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 216.	No. 217.	No. 318.
	Engineers' estimate,.....	\$42,122	\$46,984	\$62,469
719	Van Der Karr, L. & Co.,.....	48,440	48,216	66,433
271	Voorhies, W.,.....	36,209	40,032	53,972
1,236	Van Slyck, A. & Co.,.....	35,478	36,590	47,196
93	Van Valkenburgh, D. A. & Co.,.....	.....	40,435	56,360
338	Williams, L. & Co.,.....	28,722	31,730	37,311
155	Wright, P. D.,.....	38,947	38,251	55,330
542	Wagner, D. & Co.,.....	39,270	41,093	56,746
784	Woodworth, S.,.....	41,793	42,784	58,105
1,121	Wright, J. T. & Co.,.....	39,235	41,045	56,706
687	Williams, A. B. & Co.,.....	37,178	42,022	56,146
299	Ward, H. D. & Co.,.....	31,455	38,240	51,020
433	Webster, A.,.....	.....	.....	57,093

BIDS FOR SECTION WORK CONTINUED.

No. of proposition.		NAMES OF BIDDERS.		No. 228.	No. 229.
Engineers' estimate,				\$34,592	\$31,809
672	.....	Akenhead, T. & Co.,	.....	27,453	23,433
464	.....	Akenhead, W. & R.,	.....	29,463	26,268
79	.....	Burrell, T.,	.....	33,528	42,332
474	.....	Britton, J. W. & Co.,	.....	29,758	26,447
1,201	.....	Barker, C. C. & Co.,	.....	30,133	27,080
770	.....	Bradshaw, H. B.,	.....	29,036	27,195
952	.....	Barton, D. R. Co.,	.....	32,030	28,637
170	.....	Beebe, J. L. & Co.,	.....	28,674	25,493
117	.....	Barney, B. G. & Co.,	.....	28,926	26,211
645	.....	Barnard, G. W.,	.....	30,159	27,570
867	.....	Candee, W. & Co.,	.....	28,381	25,627
370	.....	Clark, J. W.,	.....	27,645	24,770
647	.....	Cady, H. & Co.,	.....	32,549	28,720
796	.....	Church, R.,	.....	31,375	27,840
1,037	.....	Church, W. S.,	.....	31,378	27,617
1,626	.....	Candee, D. & Co.,	.....	26,106	23,177
192	.....	.....	.....	28,575	25,321
670	.....	B.,	.....	29,180	26,515
284	.....	.....	.....	29,527	26,405
631	.....	& Co.,	.....	39,653	.....
763	.....	& Co.,	.....	28,979	26,343
1,002	.....	.....	.....	31,148	25,599

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 212.				No. 213.				No. 214.				No. 215.			
		Engineers' estimate,.....				\$17,817				\$23,039				\$29,004			
901	Mills, T. G. & W.,.....	17,462				18,192				20,216				20,085			
1,102	Mitchell, C.,.....	14,638				21,163				24,368				22,948			
1,061	McGovern, T. & Co.,.....	19,541				.....				.....				.....
458	Miller, J.,.....	15,329				20,452				23,514				23,550			
121	Marcellus, A.,.....	.....				19,940				22,941				.....		
1,048	Matthews, J. B. & Co.,.....	.....				24,863				25,777				26,666			
289	Moore, W. B.,.....	.....				18,024				20,771				.....		
839	Marsh, W. N.,.....	.....				.....				27,880				26,756			
1,156	Mills & Hammond,.....	.....				.....				23,590				22,830			
1,068	Nichols, J. H.,.....	16,675				24,038				27,700				26,845			
760	Nichols, C. & Co.,.....	.....				20,776				19,710				10,558			
1,235	Niven, A. H.,.....	.....				.....				28,718				.....		
935	Olney & Brill,.....	14,832				24,209				28,279				27,985			
575	Peck, L. J.,.....	14,218				28,688				33,431				32,388			
1,056	Pettys, B.,.....	14,075				18,196				21,563				21,788			
624	Plumbley, G. & Co.,.....	14,461				.....				18,414				18,405			
704	Price, E. B. & Co.,.....	.....				25,298				26,980				25,894			
641	Rogers, J. C.,.....	17,795				23,633				27,031				26,388			
368	Rogers, J.,.....	14,093				.....				22,336				23,012			
380	Richman, T. & Co.,.....	.....				19,546				22,117				24,075			
195	Spencer, U.,.....	13,361				23,152				27,232				28,028			

768	Sherman, B.,	17,866	25,100	28,756	28,050
794	Sherman, J. W.,	16,101	21,646	25,368	24,746
1,196	Sloane, W. M.,	20,213	34,778	39,036	37,693
643	Snedaker, A.,	17,190	26,116	27,080	26,858
1,247	Storrs, A. G. & Co.,	15,593	26,830	30,247	29,128
1,080	Sutherland, A. & Co., .....	.....	.....	24,960	23,884
558	Turner, Otis,	17,343	27,626	31,296	30,124
895	Vernam, J. & Co.,	12,912	22,976	27,420	26,744
719	Van Der Karr, L. & Co.,	18,779	33,940	34,619	32,760
271	Voorhies, W.,	14,702	22,163	25,067	24,528
108	Van Amburgh, J., .....	.....	22,972	27,195	27,236
1,236	Van Slyck, A. & Co., .....	.....	18,788	22,562	21,527
338	Williams, L. & Co.,	11,607	14,044	15,784	19,400
155	Wright, P. D.,	15,848	24,660	28,222	26,646
784	Woodworth, S.,	21,185	22,766	27,020	24,606
1,219	Woolson & Kelts,	14,766	22,971	25,127	.....
1,121	Wright, J. T. & Co.,	16,104	21,646	25,638	24,746
687	Williams, A. B. & Co.,	15,052	21,601	27,159	24,641
299	Wards, D. & Co.,	13,853	19,765	23,694	23,083
542	Wagner, D. & Co., .....	.....	.....	.....	26,359

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 216.		No. 217.		No. 218.	
		Engineers' estimate,.....		\$42,122		\$46,984	
31	Angell, B. F.,.....	42,482		42,607		61,714	
672	Akenhead, T. & Co.,.....	37,334		38,503		54,010	
464	Akenhead, W. & R.,.....	36,280		39,824		55,762	
79	Burrell, T.,.....	41,042		40,980		59,923	
474	Britton, J. W. & Co.,.....	40,784		54,268		57,880	
1,201	Barker, C. C. & Co.,.....	50,621		.....		84,515	
1,194	Brayton & Morris,.....	58,132		54,859		62,876	
1,023	Barry, M. & Co.,.....	42,575		46,470		.....
770	Bradshaw, H. B.,.....	38,213		38,790		49,386	
952	Barton, D. R. & Co.,.....	40,797		43,439		57,386	
170	Beebe, J. L. & Co.,.....	34,719		38,908		47,956	
1,207	Barker, W. & Co.,.....	.....		41,796		64,224	
1,177	Ball, S. & S. S.,.....	.....		40,476		54,716	
364	Clark, S. & Co.,.....	40,064		.....		60,116	
867	Candee, W. & Co.,.....	38,667		34,588		47,187	
370	Clark, J. W.,.....	34,412		36,326		50,457	
647	Cady, H. & Co.,.....	39,071		40,620		55,672	
796	Church, R.,.....	39,233		41,045		56,706	
1,180	Compson, J. W.,.....	44,958		49,792		63,951	
1,057	Church, W. S.,.....	38,746		40,746		55,951	
1,026	Candee, D. & Co.,.....	32,030		35,821		48,813	

192	Clark, P. W.,	35,370	37,780	51,742
670	Caswell, N. B.,	35,442	39,688	51,957
284	Clarke, E.,	36,718	39,254	33,052
1,941	Cleary, W. & Co.,	44,898	41,356	Two bids.
631	Cochrane, J. & Co.,	48,756	47,832	64,185
1,027	Coleman, W. & Co., .....	.....	41,148	56,051
1,002	.....	.....	.....	51,868
888	..... H.,	41,854	46,049	64,330
910	..... A. & Co.,	32,194	31,683	51,445
200	..... J. M.,	29,122	.....	.....
1,035	..... C. J. & H., .....	.....	26,338	35,914
408	..... & Co.,	38,615	38,737	56,129
422	.....	38,083	30,980	45,924
1,224	.....	.....	.....	56,460
714	Everett, G. C. & Co.,	34,344	41,318	49,225
1,051	Foster, C. & Co.,	34,802	38,896	.....
255	Failing, J.,	34,559	38,869	56,410
46	Goodrich, J. W.,	41,042	40,980	59,923
456	Grant, L. A. G. B.,	37,677	.....	.....
767	Howell, R. R. & Co.,	36,267	37,757	42,182
1,088	Hart, J. & C.,	31,377	36,143	44,102
1,006	Houghtaling, A.,	39,847	40,494	57,863
285	Hawley, A.,	24,179	24,057	34,266
144	Hackett, S.,	31,969	35,804	48,970
340	Havens, J.,	31,960	34,844	51,747
679	Holmes, D.,	32,510	39,332	.....
1,200	Hall & Andrews, .....	.....	.....	39,325
	Hart & Palmer, .....	.....	.....	.....

BIDS ON SECTION WORK—(CONTINUED.)

No. of
propositions

849	
846	
838	
83	
376	
973	
437	
466	
499	
34	
839	
901	
1,102	
1,156	
458	
1,048	
1,209	
451	
1,061	
66	
289	

1,063	Nichols, J. H.,.....	39,670	38,280	48,324
760	Nichols, C. & Co.,.....	32,356	40,238	49,445
1,189	Nelson, R. & Co.,.....	33,066	35,059	46,480
1,235	Niven, A. H.,.....	.....	46,814	61,660
935	Olney & Brill,.....	38,452	37,985	53,356
575	Peck, L. J.,.....	47,320	49,752	65,739
1,056	Pettys, B.,.....	31,943	37,857	43,803
624	Plumley, G. & Co.,.....	27,246	39,196	39,783
704	Price, E. B. & Co.,.....	42,591	38,033	58,957
1,182	Peacock, J. & S. E.,.....	34,003	35,508	48,011
1,017	Peacock, J. & Co.,.....	85,475	37,296	48,200
886	Richman, T. & Co.,.....	36,269	40,436	56,625
641	Rogers, J. C.,.....	40,218	45,528	58,701
368	Rogers, J.,.....	33,948	40,542	50,930
820	Riley, S. & Co.,.....	29,276	28,746	41,774
665	Richmond, Van R.,.....	35,233	39,112	53,470
195	Spencer, U.,.....	40,847	57,161	54,926
768	Sherman, B.,.....	44,293	46,221	64,024
794	Sherman, J. W.,.....	39,233	44,045	56,706
1,195	Sloane, W. M.,.....	54,904	56,863	78,576
1,680	Sutherland, A. & Co.,.....	34,125	38,301	47,153
643	Snedaker, A.,.....	42,442	44,279	58,178
1,247	Storrs, A. G. & Co.,.....	43,605	40,235	55,579
1,047	Sherrill, J. H. & Co.,.....	.....	49,961	62,038
558	Turner, Otis,.....	45,445	46,809	65,486
395	Vernam, J. & Co.,.....	39,356	44,022	58,540
108	Van Amburgh, J.,.....	41,600	44,613	57,011

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 216.			No. 217.		No. 318.	
		\$42,122			\$46,984		\$62,469	
	Engineers' estimate,.....							
719	Van Der Karr, L. & Co.,.....	48,440			48,216		66,433	
271	Voorhies, W.,.....	36,209			40,032		53,972	
1,236	Van Slyck, A. & Co.,.....	35,478			36,590		47,196	
93	Van Valkenburgh, D. A. & Co.,.....	.....			40,435		56,360	
338	Williams, L. & Co.,.....	28,722			31,730		37,311	
155	Wright, P. D.,.....	38,947			38,251		55,330	
542	Wagner, D. & Co.,.....	39,270			41,093		56,746	
784	Woodworth, S.,.....	41,793			42,784		58,105	
1,121	Wright, J. T. & Co.,.....	39,235			41,045		56,706	
687	Williams, A. B. & Co.,.....	37,178			42,022		56,146	
299	Ward, H. D. & Co.,.....	31,455			38,240		51,020	
433	Webster, A.,.....	.....			.....		57,093	

BIDS FOR SECTION WORK CONTINUED.

No. of proposition.		NAMES OF BIDDERS.		No. 228.	No. 229.
Engineers' estimate,				\$34,582	\$31,369
672	.....	Akenhead, T. & Co.,	.....	27,453	23,433
464	.....	Akenhead, W. & R.,	.....	29,463	26,368
79	.....	Burrell, T.,	.....	33,528	42,332
474	.....	Britton, J. W. & Co.,	.....	29,758	26,447
1,201	.....	Barker, C. C. & Co.,	.....	30,133	27,080
770	.....	H. B.,	.....	29,036	27,195
952	.....	R. Co.,	.....	32,030	28,637
170	.....	& Co.,	.....	28,674	25,493
117	.....	G. & Co.,	.....	28,926	26,211
645	.....	I. W.,	.....	30,159	27,570
867	.....	& Co.,	.....	28,391	25,627
370	.....	Clark, J. W.,	.....	27,645	24,770
647	.....	Cady, H. & Co.,	.....	32,549	28,720
796	.....	Church, R.,	.....	31,375	27,840
1,037	.....	Church, W. S.,	.....	31,378	27,617
1,626	.....	Candee, D. & Co.,	.....	26,106	23,177
192	.....	Clark, P. W.,	.....	28,575	25,321
670	.....	Caswell, N. B.,	.....	29,180	26,515
284	.....	Clarke, E.,	.....	29,527	26,465
681	.....	Cochrane, J. & Co.,	.....	39,653	.....
763	.....	Coleman, W. & Co.,	.....	28,979	26,343
1,002	.....	Corbett, M.,	.....	31,148	25,599

BIDS FOR SECTION WORK--(CONTINUED.)

No. of proposition.		NAMES OF BIDDERS.		No. 228.	No. 229.
Engineers' estimates, .....		.....		\$34,582	\$51,869
910.....		Dodge, J. A. & Co.,		28,600	25,717
200.....		Demmon, J. M.,		27,507	24,851
1,035.....		De Graw, J. & H.,		22,566	20,312
408.....		Ellicott, J. & Co.,		31,853	28,617
422.....		.....		27,636	24,552
1,224.....		& Co.,		33,082	30,044
714.....		& Co.,		29,235	26,707
46.....		i. B.,		33,528	30,182
255.....		V.,		26,894	24,102
767.....		.....		27,696	24,982
849.....		.....		27,552	33,287
1,006.....		.....		32,791	29,694
285.....		.....		18,948	17,123
144.....		.....		26,224	23,886
340.....		.....		26,643	24,561
342.....		Hart, J. N.,		28,616	24,648
1,200.....		Hart & Palmer, .....		.....	23,168
233.....		Knowles T. Jr.,		28,953	26,441
274.....		.....		30,228	26,150
513.....		.....		28,473	25,726
803.....		& T.,		27,992	

BIDS FOR SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 228.		No. 229.	
		\$34,582		\$31,369	
Engineers' estimate, .....	.....			
910.....	Dodge, J. A. & Co.,	28,600		25,717	
200.....	Demmon, J. M.,	27,507		24,851	
1,035.....	De Graw, J. & H.,	22,566		20,312	
408.....	Ellicott, J. & Co.,	31,853		28,617	
422.....	Ennis, R.,	27,636		24,552	
1,224.....	Everett, G. C. & Co.,	33,082		30,044	
714.....	Foster, Cullen & Co.,	29,235		26,707	
46.....	Grant, L. A. G. B.,	33,528		30,182	
255.....	Goodrich, J. W.,	26,894		24,102	
767.....	Hart J. & C.,	27,696		24,982	
849.....	Hart, M. & Co.,	27,552		33,287	
1,006.....	Hawley, A.,	32,791		29,694	
285.....	Hackett, S.,	18,948		17,123	
144.....	Havens, J.,	26,224		23,886	
340.....	Holmes, D.,	26,643		24,561	
342.....	Hart, J. N.,	28,616		24,648	
1,200.....	Hart & Palmer, .....	.....		23,168	
233.....	Knowles, J. jr.,	28,953		26,441	
274.....	Kenyon, D.,	30,228		26,150	
513.....	Knapp, E.,	28,472		25,785	
803.....	Kerns, E. & T.,	27,992			

376.....	Leach, J. & Co.,.....	27,583	25,054
973.....	Law, G.,.....	33,165	30,477
466.....	Lyman, A.,.....	31,232	26,678
495.....	Lamoreau, A. O.,.....	28,849	27,084
34.....	Moore, C. H. & Co.,.....	39,138	34,778
839.....	Marsh, W. N.,.....	36,861	32,250
901.....	Mills, T. G. & W.,.....	22,830	20,376
1,156.....	Mills & Harwood,.....	26,041	23,063
458.....	Miller, Isaac,.....	30,895	27,751
66.....	Mirick, J. & Co.,.....	24,700	21,482
289.....	Moore, W. B.,.....	26,126	.....
309.....	Moore, S.,.....	27,739	25,741
1,063.....	Nichols, J. H.,.....	30,369	27,807
1,189.....	Nelson, R. & Co.,.....	29,493	23,425
419.....	Nellis, R. S.,.....	28,860	27,850
575.....	Peck, L. J.,.....	38,895	35,454
624.....	Plumbley, G. & Co.,.....	20,561	17,565
541.....	Price, E. B. & Co.,.....	31,629	28,872
1,182.....	Peacock, J. & S. E.,.....	26,995	25,111
1,017.....	Peacock, J. & Co.,.....	27,885	26,073
880.....	Richman, T. & Co.,.....	31,188	27,755
641.....	Rogers, J. C.,.....	32,889	29,239
368.....	Rogers, J.,.....	28,558	25,198
594.....	Riley, L., jr.,.....	26,993	25,705
195.....	Spencer, U.,.....	29,844	26,505
768.....	Sherman, B.,.....	35,861	31,500
794.....	Sherman, J. W.,.....	31,375	27,840

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 228.	No. 229.
Engineers' estimate,.....	.....	\$34,582	\$31,369
1,196.....	Sloane, W. M.,.....	46,630	41,866
1,080.....	Sutherland & Co.,.....	25,960	23,340
643.....	Snedaker, A.,.....	29,161	26,282
1,247.....	Storrs, H. E. & Co.,.....	31,890	28,758
558.....	Turner, Otis,.....	38,171	34,156
395.....	Vernam, J. & Co.,.....	33,258	30,122
719.....	Van Der Karr, L. & Co.,.....	23,282	36,556
271.....	Voorhies, W.,.....	29,482	26,294
338.....	Williams, L. & Co.,.....	20,642	19,566
155.....	Wright, P. D.,.....	39,963	27,770
734.....	Woodworth, S.,.....	33,188	28,086
1,121.....	Wright, J. T. & Co.,.....	31,375	27,840
687.....	Williams, A. B. & Co.,.....	29,880	27,234

BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 232.	No. 233.	No. 234.
	Engineers' estimate,.....	\$26,997	\$26,279	\$41,017
672	Akenhead, T. & Co.,.....	22,781	22,311	39,617
464	Akenhead, W. & R.,.....	23,332	22,201	36,161
679	Androus & Hall,.....	.....	22,416	36,694
117	Barney, B. G. & Co.,.....	22,844	21,414	35,484
79	Burrell, T.,.....	26,877	24,659	40,925
170	Beebe, J. L. & Co.,.....	22,064	20,572	34,210
474	Britton, J. W. & Co.,.....	23,677	22,355	35,492
1,023	Barry, M. & Co.,.....	27,609	25,988	42,265
770	Bradshaw, H. B.,.....	24,202	22,666	38,552
952	Barton, D. R. & Co.,.....	26,315	22,877	38,781
1,201	Barker, C. C. & Co.,.....	.....	15,955	46,287
1,177	Ball, S. & S. S.,.....	.....	.....	37,815
848	Burns, J.,.....	.....	.....	44,289
867	Candee, W. & Co.,.....	23,247	21,255	35,295
647	Cady, H. & Co.,.....	25,855	26,137	42,245
370	Clark, J. W.,.....	22,466	21,125	35,584
796	Church, R.,.....	25,513	23,542	39,881
1,057	Church, W. S.,.....	24,521	23,693	39,029
1,026	Candee, D. & Co.,.....	20,398	18,935	33,882
1,002	Corbett, M.,.....	23,813	26,764	39,517
192	Clark, P. W.,.....	23,035	21,695	36,145

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 232.	No. 233.	No. 234.
	Engineers' estimate,.....	\$26,997	\$26,279	\$41,017
284	Clarke, E.,.....	23,821	22,550	37,822
670	Caswell, N. B.,.....	23,554	26,635	36,095
763	Coleman, W. & Co.,.....	24,020	22,820	36,109
364	Clark, S. & Co.,.....	.....	25,117	40,646
1,024	Colt, H. N.,.....	.....	26,716	43,250
888	Decker, N. H.,.....	27,385	25,974	43,253
910	Dodge, J. A. & Co., ..	22,638	21,932	31,539
200	Demmon, J. M.,.....	23,525	22,347	36,090
408	Ellicott, J. & Co.,.....	26,120	23,676	33,048
422	Ennis, B.,.....	22,703	20,460	33,842
1,224	Everett, G. C. & Co., ..	27,282	26,183	42,927
1,051	Failing, J.,.....	23,788	22,895	37,650
46	Grant, L. A. G. B.,.....	26,867	24,709	40,976
255	Goodrich, J. W.,.....	20,309	19,570	32,956
340	Holmes, D.,.....	20,181	19,006	36,086
767	Hart, J. & C.,.....	20,875	19,582	34,725
1,200	Hart & Palmer,.....	20,910	.....	.....
849	Hart, M. & Co.,.....	21,205	19,657	36,733
1,006	Hawley, A.,.....	26,755	24,989	42,560
285	Hackett, S.,.....	15,598	13,867	22,338
274	Kenyon, D.,.....	22,453	19,442	32,662

233	Knowles, J. jun.,	22, 950	22, 080	38, 468
803	Kerns, T. & E., .....	.....	.....	41, 322
495	Lamareaux, A. O.,	23, 777	19, 218	84, 352
376	Leach, J. & Co.,	22, 268	21, 459	35, 853
973	Law, G.,	26, 554	24, 841	39, 100
466	Lyman, A.,	24, 477	24, 786	39, 573
34	Moore, C. H. & Co.,	31, 158	28, 364	44, 681
399	Moore, S.,	22, 258	21, 204	84, 686
839	Marsh, W. N.,	29, 367	28, 088	39, 543
901	Mills, T. G. & W.,	19, 191	18, 201	29, 580
458	Miller, J.,	24, 712	23, 359	.....
289	Moore, W. B.,	21, 134	19, 926	34, 989
419	Nellis, R. S.,	23, 309	20, 511	34, 420
1, 063	Nichols, J. H.,	24, 930	23, 324	39, 973
1, 189	Nelson, R. & Co.,	21, 981	24, 599	33, 877
760	Nichols, C. & Co.,	23, 622	20, 787	33, 216
1, 235	Niven, A. H., .....	.....	.....	45, 777
575	Peck, L. J.,	31, 983	28, 929	45, 815
1, 182	Peacock, J. & S. E.,	21, 587	20, 280	34, 359
1, 017	Peacock, J. & Co.,	22, 333	20, 268	36, 085
624	Plumbley, G. & Co.,	16, 942	16, 738	30, 202
541	Price, E. B. & Co., .....	.....	.....	37, 373
594	Riley, L. jun.,	21, 867	22, 308	36, 400
880	Richman, T. & Co.,	23, 265	21, 794	36, 971
368	Rogers, J.,	22, 893	26, 807	36, 049
195	Spencer, U.,	24, 416	22, 918	36, 888
768	Sherman, B.,	29, 265	26, 464	42, 930

BIDS ON SECTION WORK—(Continued.)

No. of proposition	No. 232.			No. 233.		No. 234.	
	\$26,997			\$26,279		\$41,017	
794	25,513			23,542		39,881	
1,190	38,223			34,033		54,613	
1,080	22,803			20,998		37,239	
1,047	.....			.....		45,433	
1,247	.....			.....		39,608	
558	.....			.....		45,361	
395	31,389			27,718		39,820	
719	25,570			24,496		41,906	
171	33,737			31,932		37,976	
338	23,790			22,812		28,751	
155	17,305			14,775		38,872	
784	25,583			26,175		41,955	
1,121	25,381			23,937		39,881	
1,110	25,513			23,542		42,861	
902	31,805			28,153		40,192	
	.....			25,175			
	Van Der Karr, L. & Co.,						
	Voorlies, W.,						
	Williams, L. & Co.,						
	Wright, P. D.,						
	Woodworth, S.,						
	Wright, J. T. & Co.,						
	Williams, G. & Co.,						
	Walker, Wm.,						

BIDS ON SECTION WORK—(CONTINUED.)

408

[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	No. 245.	No. 246.	No. 237.
	Engineers' estimate,.....	\$23,487	\$26,453	\$27,133
192	V.,	20,328	22,882	23,720
284	.....	21,074	23,721	24,596
• 670	B.,	20,553	22,997	23,930
689	B., .....	.....	.....	23,238
888	H.,	24,701	27,080	28,200
910	Louge, J. A. & Co.,	19,609	21,805	21,861
200	Demmon, J. M.,	20,286	.....	.....
408	Ellicott, J. & Co.,	22,694	25,164	25,758
422	Ennis, R.,	18,496	23,116	23,963
1,224	Everett, G. C. & Co.,	23,078	28,079	.....
1,109	Ennis, E. & W. H., .....	.....	22,830	24,368
1,050	Falling, J.,	22,323	.....	.....
46	Grant, L. A. G. B.,	23,572	26,219	26,869
255	Goodrich, J. W.,	17,963	20,095	.....
767	Hart, J. & Co.,	18,962	21,132	23,076
849	Hart, M. & Co.,	20,824	21,683	22,498
1,006	Hawley, A.,	24,138	26,486	27,533
894	Hudmit, J. O. & Co., .....	.....	.....	26,704
274	Kenyon, D.,	23,079	22,658	25,979
233	Knowles, J. jun.,	21,379	24,137	26,188
257	King, J. B. & Co.,	14,234	16,822	.....

376	Leach, J. & Co.,	20,737	23,375	24,469
495	Lamoreaux, A. O.,	19,731	24,267	24,608
973	Law, G.,	22,964	25,659	26,218
466	Lyman, A.,	21,341	23,892	25,206
34	Moore, C. H. & Co.,	27,343	29,974	30,935
399	Moore, S.,	20,203	21,901	23,800
901	Mills, T. G. & W.,	18,247	20,375	20,982
289	Moore, W. B.,	18,880	20,573	21,502
1,085	Mills, M. H. & Co.,	.....	.....	27,595
419	Nellis, R. S.,	19,661	23,219	26,147
1,063	Nichols, J. H.,	23,039	25,372	26,826
1,189	Nelson, R. & Co.,	18,497	21,281	22,503
760	Nichols, O. & Co.,	19,414	24,445	21,184
1,235	Niven, A. H.,	24,598	27,970	.....
575	Peck, L. J.,	27,657	31,060	31,739
624	Plumbley, G. & Co.,	16,302	16,983	17,706
1,017	Peacock, J. & Co.,	19,566	.....	.....
984	Palmer, P. & Co.,	.....	.....	21,696
541	Price, E. B. & Co.,	.....	.....	23,944
880	Richman, T. & Co.,	22,145	24,433	23,462
368	Rogers, J.,	20,695	23,756	25,013
594	Riley, L. jun.,	19,954	22,047	23,872
195	Spencer, U.,	21,072	23,780	24,571
768	Sherman, B.,	24,948	27,676	28,598
794	Sherman, J. W.,	21,867	24,441	25,344
1,196	Stoane, W. M.,	33,763	36,782	37,880
1,080	Sutherland, A. & Co.,	20,871	23,336	24,281

BIDS ON SECTION WORK--(CONTINUED.)

No. of Proposition.	NAMES OF BIDDERS.	No. 235.		No. 236.		No. 237.	
		\$23,487		\$26,453		\$27,133	
	Engineers' estimate,.....						
1,247	Storrs, A. G. & Co., ..	23,148		24,310		25,200	
558	Turner, Otis,.....	27,435		29,993		30,744	
395	Vernam, J. & Co.,.....	23,046		25,143		25,931	
719	Van Der Karr, L. & Co., ..	28,909		31,360		32,615	
271	Voorhies, W ,.....	21,557		24,178		25,133	
338	Williams, L. & Co.,	13,778		16,039		16,639	
155	Wright, P. D.,.....	20,874		24,192		24,783	
902	Walker, William,.....	25,525		27,837		28,484	
784	Woodworth, S.,.....	23,222		26,518		27,198	
1,121	Wright, J. T. & Co.,.....	21,867		24,441		25,344	
1,110	Williams, G. & Co.,	27,829		34,017		35,181	
542	Wagner, D. & Co., .....	.....		25,646		26,598	

BIDS ON SECTION WORK--(CONTINUED.)

No. 90.]

411

Number of proposition.		NAMES OF BIDDERS.		No. 238.	No. 239.
Engineers' estimate.				\$35,500	\$41,004
672.....		Akenhead, T. & Co.,.....		34,589	...
1,146.....		Austin, W. O.,.....		32,851	35,048
79.....		Burrell, T.,.....		35,232	41,205
170.....		Beebe, J. L. & Co.,.....		30,852	33,055
474.....		Britton, J. W. & Co.,.....		31,574	36,694
952.....		Barton, D. R., & Co.,.....		33,302	38,023
1,201.....		Barker, C. C. & Co.,.....		33,889	39,074
1,142.....		Boyce, Peter,.....		31,430	35,534
1,023.....		Barry, M., & Co.,.....		36,353	41,965
1,194.....		Brayton & Morris,.....		52,882	61,900
364.....		Clark, S. & Co.,.....		34,511	40,213
867.....		Candee, W. & Co.,.....		30,764	37,893
647.....		Cady, H. & Co.,.....		23,698	36,868
370.....		Clark, J. W.,.....		30,002	35,202
689.....		Chipman, J. B.,.....		30,793	33,334
796.....		Church, R.,.....		32,722	38,709
1,024.....		Colt, H. V.,.....		39,102	45,031
1,057.....		Church, W. S.,.....		32,820	38,372
1,026.....		Candee, D. & Co.,.....		27,974	31,184
1,002.....		Corbett, M.,.....		32,497	...
192.....		Clark, P. W.,.....		30,632	36,097
284.....		Clarke, E.,.....		31,933	67,973

BIDS ON SECTION WORK—(CONTINUED.)

Engineers' estimates, No. of proposition.	NAMES OF BIDDERS.	No. 238.		No. 239.	
		\$35,500		\$41,004	
670.....	Caswell, N. B.,.....	31,165	36,347		
681.....	Cochrane, J. & Co.,.....	41,594	46,634		
888.....	Decker, N. H.,.....	36,302	.....	
910.....	Dodge, J. A. & Co.,.....	29,713	33,669		
200.....	Dunron, J. W.,.....	30,462	.....	
408.....	Ellicott, J. & Co.,.....	33,920	39,549		
422.....	Ennis, R.,.....	31,394	37,783		
1,224.....	Everett, C. G. & Co.,.....	35,356	41,015		
109.....	Ennis, E. & W. H.,.....	32,053	.....	
52.....	Ennis, E. & Co.,.....	.....	33,943		
46.....	Grant, L. A. G. B.,.....	35,282	41,256		
767.....	Hart, J. & Co.,.....	29,903	35,445		
849.....	Hart, M. & Co.,.....	30,921	35,606		
1,006.....	Hawley, A.,.....	35,300	41,512		
894.....	Hudnut, J. O. & Co.,.....	36,571	41,219		
274.....	Kenyon, D.,.....	26,091	34,791		
803.....	Kerns, T. & E.,.....	33,682	40,394		
233.....	Knowles, J. jr.,.....	34,113	.....	
513.....	Knapp, E.,.....	.....	34,468		
376.....	Leach, J. & Co.,.....	29,693	34,863		
495.....	Lamoreaux, A. O.,.....	28,829	38,026		
973.....	Law, G.,.....	34,557	40,338		

466.....	Lyman, A.,.....	32, 956	37, 899
34.....	Moore, C. H. & Co.,	40, 822	46, 649
399.....	Moore, S.,.....	30, 323	37, 647
901.....	Mills, T. G. & W.,.....	27, 622	31, 413
289.....	Moore, W. B.,.....	27, 672	32, 672
1, 156.....	Mills & Harwood,	31, 195	35, 894
1, 085.....	Mills, M. H. & Co.,.....	35, 474	.....
945	McDonald, A. P., .....	.....	38, 288
419.....	Nellis, R. S.,.....	27, 491	33, 942
1, 063.....	Nichols, J. H.,.....	33, 306	38, 288
1, 189.....	Nelson, R. & Co.,.....	30, 236	32, 897
760.....	Nichols, C. & Co.,	26, 598	34, 502
575.....	Peck, L. J.,.....	41, 673	48, 138
984.....	Palmer, P. & Co.,	27, 970	31, 568
624.....	Plumbley, G. & Co.,	24, 767	28, 576
1, 017.....	Peacock, J. & Co.,.....	28, 103	33, 133
541.....	Price, E. B. & Co.,.....	30, 808	.....
1, 182.....	Peacock, J. & S. E.,	30, 304	35, 714
282.....	Rose, C. & Co.,.....	43, 678	48, 609
880.....	Richman, T. & Co.,	30, 955	35, 758
368.....	Rogers, J.,.....	30, 843	36, 197
594.....	Riley, L. jr.,.....	30, 374	35, 420
195.....	Spencer, U.,.....	30, 908	36, 350
768.....	Sherman, B.,.....	36, 048	43, 744
794.....	Sherman, J. W.,	32, 722	38, 709
1, 196.....	Sloane, W. M.,.....	49, 726	57, 127
1, 080.....	Sutherland, A. & Co.,.....	30, 564	34, 610

BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition. Engineers' estimates,.....	NAMES OF BIDDERS.	No. 238.		No. 239.	
		\$35,500		\$41,004	
1,047.....	Sherill, J. H. & Co.,	41,246	41,555		
1,247.....	Storrs, H. E. & Co.,	32,677	37,625		
558.....	Turner, Otis,	40,442	46,821		
395.....	Vernam, J. & Co.,	33,910	39,628		
719.....	Van Der Kart, L. & Co.,	44,039	47,815		
271.....	Voorhies, W.,	32,640	37,256		
338.....	Williams, L. & Co.,	23,134	27,133		
155.....	Wright, P. D.,	23,656	36,422		
542.....	Wagner, D. & Co.,	34,726	40,457		
784.....	Woodworth, S.,	32,454	37,628		
902.....	Walker, W.,	37,842	43,335		
1,121.....	Wright, J. T. & Co.,	32,722	38,709		
1,110.....	Williams, G. & Co.,	45,920	32,204		

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 241.				No. 242.				No. 243.				No. 245.			
		Engineers' estimate,.....				\$19,787				\$16,768				\$9,110			
1,139	Archer, O. & Co	26,634				.....				.....				.....
79	Burrell, T.....	30,598				19,589				16,473				10,223			
170	Beebee, J. L. & Co.....	26,075				16,655				14,078				8,560			
474	Britton, J. W. & Co.....	26,852				17,356				14,706				8,796			
959	Barton, D. R. & Co.....	28,857				18,508				15,514				10,037			
1,201	Barker, C. C. & Co.....	28,181				18,266				15,675				9,432			
1,142	Boyce, P.....	26,280				15,835				14,244				.....		
645	Barnard, G. W.....	.....				17,496				14,677				.....		
364	Clark, S. & Co.....	29,650				.....				.....				.....
518	Clark, J. L. & Co.....	25,677				16,311				16,234				8,769			
867	Candee, W. & Co.....	27,687				17,092				14,320				8,659			
795	Case, C. G. & Co.....	27,798				17,656				14,673				8,845			
647	Cady, H. & Co.....	27,331				17,385				14,831				9,083			
770	Clark, J. W.....	26,746				16,577				13,917				8,606			
689	Chipman, J. B.....	26,519				16,198				14,878				8,705			
796	Church, R.....	28,862				18,287				15,455				9,442			
1,024	Colt, H. V.....	34,273				21,988				18,260				11,465			
1,057	Church, W. S.....	28,663				18,313				15,500				9,506			
1,026	Candee, D. & Co.....	24,167				15,695				13,246				8,042			
1,002	Corbett, M.....	26,340				16,821				14,092				8,700			
192	Clark, P. W.....	27,209				16,977				14,332				8,800			

BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 241.	No. 242.	No. 243.	No. 245.
	Engineers' estimate,.....	\$30,994	\$19,787	\$16,768	\$9,110
284	Clarke, E.....	28,075	17,568	14,489	.....
670	Caswell, N. B.....	27,054	16,562	13,892	8,656
1,234	Cole, E. & Co.....	.....	18,430	15,982	.....
888	Decker, N. H.....	30,764	19,760	16,554	10,086
910	Dodge, J. A. & Co.....	26,950	16,215	13,915	8,451
52	Ennis, E. & Co.....	27,264	16,822	15,039	8,451
408	Ellicott, J. & Co.....	29,686	18,890	15,861	9,921
422	Ennis, R.....	28,952	18,277	15,250	8,955
1,224	..... C. & Co.....	31,541	18,980	15,679	10,321
1,174	T. D.....	30,268	19,473	16,297	10,909
1,083	& Co.....	27,713	16,991	14,521	8,922
46	Grant, L. A. G. B.....	30,648	19,639	16,523	10,273
255	Goodrich, J. W.....	.....	.....	14,790	.....
844	Hewes & Robinson.....	29,330	18,370	15,470	9,300
767	Hart, J. & Co.....	23,215	14,796	10,617	7,308
849	Hart, M. & Co.....	21,030	13,186	12,990	.....
1,006	Hawley, A.....	31,504	20,058	16,731	10,485
894	Hudnut, J. O. & Co.....	31,260	20,512	16,848	9,870
1,200	Hart, & Palmer.....	.....	.....	10,976	.....
513	Knapp, E.....	25,567	15,206	14,969	8,772
274	Kenyon, D.....	21,119	18,119	14,172	11,035

BIDS ON SECTION WORK—(CONTINUED.)

No. of porposition.	NAMES OF BIDDERS.	No. 241.	No. 242.	No. 243.	No. 245.
	Engineers' estimate,.....	\$30,994	\$19,787	\$16,768	\$9,110
1,080	Sutherland, A. & Co.....	27,357	17,156	14,792	8,859
603	Snedaker, A.....	27,933	16,963	14,267	.....
1,247	Storrs, H. E. & Co.....	29,102	19,174	15,914	9,924
558	Turner, Otis.....	35,110	22,905	19,007	12,106
395	Vernam, J. & Co.....	29,350	18,926	15,838	9,724
719	Van Der Karr, L. & Co.....	37,061	24,105	20,016	13,154
271	Voorhies, Wm.....	28,507	17,473	13,863	9,157
338	Williams, L. & Co.....	21,608	13,359	11,684	6,822
155	Wright, P. D.....	27,582	17,238	14,534	9,282
542	Wagner, D. & Co.....	29,420	.....	.....	.....
902	Walker, Wm.....	31,857	20,640	17,167	10,882
784	Woodworth, S.....	32,120	20,816	17,850	10,365
1,121	Wright, J. T. & Co.....	28,862	18,287	15,455	9,442

BIDS ON SECTION WORK—(CONTINUED.)

No. of Proposals	NAMES OF BIDDERS.	No. 246.		No. 247.		No. 248.		No. 249.	
		Engineers' estimates,.....		\$32,040		\$37,847		\$33,499	
106	Allen, S. P.,.....	28,609		34,261		30,786		38,004	
164	Akenhead, W. & R.,.....	24,404		30,442		26,046		29,407	
1,139	Archer & Boyce,.....	25,436		32,608		30,578		36,628	
231	Beal, S. & D. C.,.....	21,975		27,994		24,216		29,439	
363	Barnard, A.,.....	26,245		31,029		25,788		35,126	
79	Burrell, T.,.....	30,850		35,312		30,596		37,012	
170	Beebee, J. L. & Co.,.....	23,860		28,835		25,285		31,300	
484	Burr, A. L. & Co.,.....	29,852		36,671		32,099		39,718	
156	Buell, W.,.....	34,929		40,782		45,725		44,547	
1,177	Ball, S. & S. S.,.....	27,763		33,694		30,101		38,819	
822	Barker & Roberts,.....	33,491		37,459		31,395		38,108	
959	Barton & O'Maley,.....	29,568		35,777		31,620		38,938	
474	Britton & Swain,.....	26,976		31,710		27,629		34,240	
1,142	Boyce, P.,.....	29,985		32,919		28,869		38,195	
1,207	Barker, W. & Co.,.....	26,610		31,794		27,786		38,202	
398	Buchan, P. G.,.....	32,368		38,768		34,473		42,893	
1,023	Barry, M. & Co.,.....	36,841		45,196		40,050		50,075	
1,052	Brainerd & Egindon,.....	48,030		44,953		46,877		58,715	
1,193	Brayton & Morris,.....	29,148		31,320		26,414		31,627	
214	Curtis, D. F.,.....	27,130		34,416		29,686		37,904	
33	Cummings, J. P. & T.,.....	23,829		26,897		23,012		27,824	
1,026	Candee & Williams,.....	22,904		29,777		26,174		33,189	

No. Propo- sition	NAMES OF BIDDERS.	No. 246. \$32,040	No. 247. \$37,847	No. 248. \$33,399	No. 249. \$41,302
321	Chamberlain, C. T. & Co.,	25,862	33,229	29,950	37,174
867	Candee, W. & Co.,	27,651	32,335	28,143	34,859
832	Carmichael, B. F. & Co.,	25,593
763	Coleman, W. & Co.,	47,798
1,180	Compson, J. W.,	30,555	35,599	30,973	40,499
795	Case & Baker,	24,975	33,162	33,925	41,945
647	Cady, H. & Co.,	33,800	40,093	38,307	47,129
928	Collins, J. & C.,	33,664	43,209	39,254	49,279
1,116	Cleary & Smith,	27,199	33,524	28,852	34,957
1,057	Church, W. S.,	29,031	33,466	29,137	35,152
364	Clark, Learned,	26,399	31,397	27,837	35,432
1,021	Colt, H. V.,	29,414	34,599	30,602	37,419
796	Church, R.,	29,781	34,724	30,468	37,486
910	Dodge & Comstock,	23,692	28,856	25,454	31,870
1,035	De Graw, C. J., & H.,	20,243	21,929	18,771	23,935
888	Decker, N. H.,	29,800	35,446	31,831	39,450
52	Ennis, E. & Co.,	25,280	33,571	31,300	38,694
408	Ellicott & Bentley,	28,100	32,280	27,946	33,961
1,173	Estabrook, T. D. & Co.,	25,944	32,562	33,001	41,250
422	Ennis, R.,	26,455	31,789	28,133	34,652
1,083	Farwell, S. & Co.,	23,865	47,030	31,612	39,985
1,243	Farquharson, J. & Co.,	40,138

46	Grant, L. A. G. B.,.....	80,250	34,712	29,996	36,412
255	Goodrich, J. W.,.....	25,175	29,821	.....	.....
835	Green, N. B. & Co.,.....	32,834	42,171	38,860	48,484
767	Hart, J. & Co.,.....	22,402	.....	.....	.....
1,200	Hart & Palmer,.....	20,073	32,701	29,558	36,776
1,006	Hawley, A.,.....	24,390	27,667	23,971	29,184
1,499	Hayes, Jno.,.....	21,199	26,207	22,542	28,909
1,036	Haggarty & Dimond,	34,844	44,189	37,879	50,258
826	Johnson, W. & Co.,.....	25,526	32,200	28,579	34,995
846	Jones, S. & Co.,.....	.....	40,039	35,770	45,394
274	Kenyon, D.,.....	24,014	31,344	33,296	34,585
1,181	Kimball, W. & Co.,.....	21,418	25,696	23,521	28,805
1,716	Kingsley & James,.....	29,784	36,603	30,885	38,103
803	Kerns, E. & T., .....	.....	.....	30,896	.....
32	Lacey, C. T.,.....	28,012	.....	.....	.....
495	Lamoreaux, A. O.,	25,178	32,788	.....	36,452
973	Law, Geo.,	28,170	34,158	30,505	37,533
125	McCabe, J. & Co.,.....	24,787	30,548	.....	.....
162	Milliner, J. P.,.....	29,457	35,205	29,713	.....
1,156	Mills & Harwood,	25,654	29,834	26,279	32,294
947	McDonald, A. P.,	23,836	28,548	25,303	31,321
901	Mills, T. G. & W.,	24,990	29,834	26,469	32,285
399	Moore, S.,.....	26,468	29,389	25,771	31,485
993	McDonald, J.,.....	17,459	19,780	16,941	20,550
451	Martindale & Ferrell,.....	.....	38,013	33,834	41,854
1,158	McWilliams, E. & A.,.....	.....	37,078	33,333	39,032
1,061	McGovern, T. & Co.,.....	.....	30,152	25,950	29,612

BIDS ON SECTION WORK—(CONTINUED.)

No. of Bid	Names of Bidders.	No. 246.			No. 247.			No. 248.			No. 249.		
		Engineers' estimate,			\$33,040			\$37,847			\$33,499		
458	Miller, J. & Co., .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31,259
419	Nellis, R. S., .....	.....	24,944	.....	.....	32,644	.....	.....	30,478	.....	.....	.....	35,059
394	Norman, H., .....	.....	25,262	.....	.....	31,297	.....	.....	27,881	.....	.....	.....	34,396
489	Nelson, R. & Co., .....	.....	29,520	.....	.....	35,382	.....	.....	30,925	.....	.....	.....	38,143
1,067	Nichols, J. H., .....	.....	23,058	.....	.....	27,254	.....	.....	24,072	.....	.....	.....	29,686
1,760	Nichols, C. & Co., .....	.....	22,575	.....	.....	31,024	.....	.....	27,659	.....	.....	.....	34,075
907	O'Brian, J., .....	.....	29,092	.....	.....	32,564	.....	.....	29,936	.....	.....	.....	32,641
468	Oswald, J. & Co., .....	.....	28,468	.....	.....	34,268	.....	.....	30,505	.....	.....	.....	38,525
387	Osborn, N., .....	.....	.....	.....	.....	30,910	.....	.....	26,474	.....	.....	.....	32,137
1,017	Peacock, J. & J., .....	.....	24,430	.....	.....	34,975	.....	.....	31,716	.....	.....	.....	40,488
575	Peck, L. J., .....	.....	27,353	.....	.....	44,097	.....	.....	28,333	.....	.....	.....	45,238
475	Pratt, F. & Co., .....	.....	21,800	.....	.....	28,062	.....	.....	25,351	.....	.....	.....	34,075
1,183	Peacock, J. & S. E., .....	.....	25,825	.....	.....	35,704	.....	.....	34,200	.....	.....	.....	42,974
529	Pringle, E., .....	.....	22,132	.....	.....	28,497	.....	.....	22,859	.....	.....	.....	28,222
1,215	Page, D. & Co., .....	.....	25,782	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
703	Packard & Lapham, .....	.....	19,941	.....	.....	26,994	.....	.....	25,327	.....	.....	.....	31,995
541	Price & Cook, .....	.....	27,997	.....	.....	28,559	.....	.....	27,284	.....	.....	.....	34,954
283	Rose, C. & A. G., .....	.....	23,755	.....	.....	27,535	.....	.....	26,444	.....	.....	.....	32,308
560	Rowley & Foster, .....	.....	24,596	.....	.....	32,161	.....	.....	24,393	.....	.....	.....	.....
641	Rogers, J. C., .....	.....	23,361	.....	.....	28,062	.....	.....	37,016	.....	.....	.....	.....
880	Richman & Morley, .....	.....	30,076	.....	.....	37,493	.....	.....	33,170	.....	.....	.....	47,041
730	Richardson, D. H., .....	.....	31,282	.....	.....	37,659	.....	.....	20,841	.....	.....	.....	40,388

820	Riley, J. & Co., .....	.....	23, 922	.....	25, 620
768	Sherman, B.,	32, 061	37, 485	32, 851	40, 270
643	Snedaker, A.,	26, 302	30, 646	27, 533	35, 104
997	Smith, G.,	30, 038	35, 190	31, 465	38, 783
1, 196	Sloane, W. M.,	34, 158	40, 026	35, 197	43, 217
1, 081	Sutherland, A. & Co.,	29, 993	37, 051	33, 154	41, 174
804	Swain & Nodwell,	21, 606	25, 144	21, 964	27, 376
1, 047	Sherrill, J. H. & Co.,	30, 339	36, 377	32, 044	41, 619
1, 195	Shaner H.,	27, 021	32, 189	28, 206	35, 023
1, 031	E.,	19, 690	22, 616	19, 609	24, 020
1, 794	Sherman, J. W.,	29, 776	34, 724	30, 468	37, 486
1, 169	Severance, H. M.,	27, 744	32, 606	28, 404	35, 021
896	St. John & Dunham,	23, 611	27, 131	25, 125	29, 660
558	Turner, Otis,	31, 785	36, 733	31, 877	38, 894
395	Vernam, J. & Co.,	29, 170	33, 596	29, 625	36, 082
719	Van Der Karr, L. & Co.,	26, 654	29, 692	24, 965	29, 777
1, 076	Van De Mark, J. & Co.,	21, 023	24, 259	20, 835	24, 092
266	Welles, H. S.,	32, 529	37, 851	32, 815	40, 033
838	Williams & Candee,	19, 598	23, 416	21, 516	27, 266
1, 121	Wright, J. T. & Co.,	29, 691	34, 724	30, 468	37, 486
824	Whitney, J. G. & Co.,	28, 090	34, 975	31, 052	37, 869
155	Wright, P. D.,	36, 164	42, 952	37, 981	46, 803
784	Woodworth, S.,	28, 079	36, 865	32, 499	40, 278
1, 110	. & Co.,	29, 132	35, 095	29, 981	36, 798
902	Walker, Wm.,	28, 433	32, 903	28, 767	35, 183
1, 010	Woodruff & Rae,	31, 664	37, 613	31, 325	39, 245

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDER.	No. 250.	No. 251.	No. 252.	No. 253.	No. 254.
	estimate,.....	\$54,913	\$54,342	\$45,740	\$24,827	\$33,839
106	inel P.,.....	50,523	50,001	42,005	22,679	31,002
1,139	Boyce,.....	47,543	47,893	38,070	.....	.....
231	D. C.,.....	35,647	35,709	36,592	15,217	.....
363	A.,.....	44,743	39,471	32,921	19,457	25,788
79	.....	49,376	48,912	41,240	25,024	23,072
170	L. & Co.,.....	41,875	41,440	34,104	18,988	23,744
484	. & Co.,.....	53,608	53,957	43,777	24,709	34,406
156	.....	60,378	59,740	48,959	26,952	34,556
1,177	S. S.,.....	53,399	52,819	39,715	21,563	29,669
822	Roberts,.....	49,868	49,462	28,390	27,765	35,085
959	Malley,.....	53,014	52,478	43,433	24,210	31,668
474	Swain,.....	46,312	44,174	37,808	20,866	26,115
1,142	.....	48,415	47,912	37,294	21,884	28,929
1,207	. & Co.,.....	45,517	45,053	37,717	.....	.....
398	G.,.....	56,805	56,204	47,463	24,207	35,042
1,023	& Co.,.....	47,864	67,139	54,856	31,069	.....
1,052	.....	76,918	74,577	66,290	39,751	50,840
1,193	.....	41,999	41,622	.....	22,441	32,420
1,117	.....	.....	.....	.....	19,589	26,390
1,201	C. & Co.,.....	.....	.....	.....	18,355	25,691
848	.....	.....	.....	.....	.....	29,256

214	Curtis, D. F.,	50,830	49,908	41,175	21,787	29,082
33	Cummings, J. P. & T.,	39,228	40,911	34,467	20,323	.....
1,026	Candee & Williams,	45,365	44,901	37,098	17,630	23,661
321	Chamberlain, C. T. & Co.,	49,514	48,892	30,166	20,435	28,771
867	Candee, W. & Co.,	55,740	55,160	45,335	25,300	26,759
795	Case & Baker,	55,809	55,619	59,677	22,126	29,072
763	Coleman, W. & Co., .....	.....	68,828	.....	.....	.....
1,180	Compson, J. W.,	55,015	54,587	47,083	23,711	30,537
647	Cady, H. & Co.,	65,295	64,628	43,528	25,378	24,477
928	Collins, J. & C.,	72,089	71,106	56,043	21,192	28,231
1,116	Cleary & Smith,	44,310	46,525	37,284	24,241	28,091
1,057	Church, W. S.,	46,523	46,088	38,909	18,995	31,546
364	Clark & Learned,	49,099	48,577	39,727	20,756	29,282
1,024	Colt, H. V.,	49,844	49,351	41,048	23,970	32,395
796	Church, R.,	50,068	49,575	41,295	24,013	32,936
631	Cochrane & Rigney,	49,831	49,759	.....	.....	.....
839	Carmichael, B. F. & Co., .....	.....	.....	.....	20,204	27,534
1,234	Cole, E. & Co., .....	.....	.....	.....	.....	26,772
942	Chase, L., .....	.....	.....	.....	.....	26,668
910	Dodge & Comstock,	43,336	42,872	35,018	18,984	24,500
1,035	DeGraw, C. J. & H.,	31,671	29,225	24,995	15,804	20,681
888	Decker, N. H.,	52,844	52,693	43,303	22,297	21,705
146	Douglass, A. W., .....	.....	.....	.....	.....	28,944
1,112	DeLano, M. & Co., .....	.....	.....	.....	.....	24,515
52	Emmis, E. & Co.,	51,047	50,554	42,251	23,487	27,251
408	Ellicott & Bentley,	45,960	45,525	38,315	23,131	30,660
422	Ennis, R.,	46,067	45,703	37,806	20,183	26,975

BIDS ON SECTION WORK—(CONTINUED.)

426

[ASSEMBLY

1,173	Estabrook, T. D. & Co.,	55,207	52,796	42,443	23,635	29,642
1,083	Farwell, S. & Co.,	51,835	53,473	40,236	21,678	28,349
1,243	Forquharson, J.,	53,354	52,832	44,092	21,586	.....
46	Grant, L. A. G. B.,	49,376	48,912	41,240	25,024	28,002
885	Green, N. B. & Co.,	65,357	64,661	52,787	25,609	32,538
1,200	Hart & Palmer,	46,923	45,530	37,109	15,133	21,363
1,006	Hawley, A.,	39,095	38,628	32,403	19,352	.....
499	Hayes, J.,	38,863	41,646	36,059	17,992	21,855
1,036	Haggerty & Dimon,	70,554	67,540	55,187	19,601	26,851
1,088	Houghtailing, A.,	37,691	39,549	.....	.....	.....
885	Haughey, J. & Co.,	.....	67,640	46,688	20,749	27,345
920	Hunt, S. J.,	.....	.....	.....	.....	26,599
849	Hart, M. & Co.,	.....	.....	.....	.....	22,965
896	Johnson, W. & Co.,	46,589	46,125	38,276	22,237	30,143
846	Jones, S. & Co.,	62,060	61,364	49,441	25,305	33,695
274	Kenyon, D.,	48,277	47,734	.....	.....	.....
1,181	Kimball, W. & Co.,	38,917	38,511	31,702	17,978	21,927
716	Kingsley & James,	51,358	50,836	42,067	24,000	33,498
978	Law, G.,	49,913	47,246	51,588	23,105	31,356
1,075	Luddington, M. E. & Co.,	.....	.....	41,836	21,347	25,038
125	McCabe, J. & Co.,	51,013	50,591	.....	.....	.....

1,156	Mills & Harwood,	43,244	41,809	35,475	20,457	28,439
947	McDonald, A. P.,	42,090	41,555	34,213	18,493	25,440
901	Mills, T. G. & W.,	44,348	43,884	36,020	19,606	27,888
399	Moore, S.,	39,528	43,471	34,540	.....	.....
993	McDonald, J.,	27,467	27,206	22,931	13,826	19,223
451	Martindale & Ferrell,	56,140	54,511	45,735	24,800	28,212
1,158	McWilliams, E. & A.,	57,401	48,991	36,331	25,469	33,086
1,061	McGovern, T. & Co.,	40,083	41,735	33,150	.....	.....
1,102	Mitchell, C.,	35,836	35,285	.....	.....	26,902
190	Moore & Barnard,	57,098	54,118	43,885	21,072	.....
540	McArthur, J. R. & W.,	40,577	37,740	32,089	19,196	25,553
1,209	McCartney & Co., .....	.....	.....	35,400	16,124	19,842
162	Milliner, J. P., .....	.....	.....	.....	.....	30,804
1,049	Matthews, J. B. & Co., .....	.....	.....	.....	.....	31,207
1,189	Nelson, R. & Co.,	51,169	50,647	41,871	20,970	27,635
394	Norman & Hewes,	55,597	54,897	36,467	19,739	24,761
1,067	Nichols, J. H.,	39,818	39,412	32,574	19,158	24,607
760	Nichols, C. & Co.,	48,361	46,968	38,415	19,172	25,744
907	O'Brien, J.,	47,610	36,375	40,089	.....	.....
468	Oswald, J. & Co.,	52,499	51,919	42,010	19,191	27,085
387	Osburn, N.,	42,951	42,495	35,823	21,594	34,576
934	Olney, J. & Co., .....	.....	.....	.....	.....	26,320
1,017	Peacock, J. & J.,	55,972	55,421	45,239	22,729	25,860
575	Peck, L. J.,	59,582	60,065	50,568	29,092	35,856
475	Pratt, F. & Co.,	47,445	45,408	35,662	19,142	21,654
1,183	Peacock, J. & S. E.,	55,886	53,778	44,189	21,495	27,246
529	Pringle, B.,	38,104	37,713	31,096	17,517	24,889

BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 250.					No. 251.					No. 252.					No. 253.					No. 254.				
		\$54,913					\$54,342					\$45,740					\$24,827					\$33,839				
703	Packard & Lapham,.....	45,130					45,466					40,659					19,120					25,784				
541	Price & Cook,.....	49,095					48,602					38,575														
1,056	Pettys, B.,.....	84,970					35,642					28,852														
1,215	Page, D. & Co.,.....						46,388					34,527					21,064					22,560				
1,774	Peterson, J.,.....											33,181										24,734				
1,233	Peirce, H.,.....																17,782					22,464				
913	Quackenboss, H. & Co.,.....																					25,423				
283	Rose, C. & A. G.,.....	45,378					47,103					35,442					19,409					24,969				
880	Richman & Morley,.....	65,325					64,548					52,091					26,976					28,420				
730	Richardson, D. H.,.....	53,813					53,291					44,012					25,050					29,771				
820	Riley, J. & Co.,.....	34,420					34,072					26,616					15,509					22,137				
560	Rowley & Foster,.....																19,078					27,002				
768	Sherman, B.,.....	48,105					52,583					43,838					25,710					34,668				
643	Snedaker, A.,.....	44,150					41,426															27,266				
997	Smith, G.,.....	52,071					51,349					42,601					23,827					32,590				
1,196	Sloane, W. M.,.....	57,878					57,298					47,537					27,438					37,357				
1,081	Sutherland, A. & Co.,.....	61,931					61,264					49,854					26,698					22,676				
804	Swain & Nodwell,.....	35,717					35,277					29,592					16,925					26,636				
1,047	Sherrill, J. H. & Co.,.....	54,401					53,821					43,999														
195	Spencer, U.,.....	47,407					46,914					38,632					20,184					29,211				
1,031	Stansbury, E.,.....	32,262					31,943					26,640					15,587					22,071				

1,169	Severance, H. M.,	47,224	46,746	37,923	21,678	29,770
1,077	Sage & Dunham,	32,713	32,347	28,369	.....	.....
794	Sherman, J. W.,	50,068	49,575	41,296	24,213	32,936
572	Strong, M., .....	.....	.....	.....	.....	32,824
817	Smith & Tracy, .....	.....	.....	.....	.....	28,905
558	Turner, Otis,	52,165	51,672	43,487	26,348	35,111
395	Vernam, J. & Co.,	15,777	50,248	41,481	22,326	30,750
719	Van Der Karr, L. & Co.,	39,487	39,261	33,535	21,223	27,385
1,076	Van Demark, J. & Co.,	34,558	34,210	26,767	16,257	20,856
533	Van Riper, A. & Co., .....	.....	.....	.....	.....	16,852
266	Welles, H. S.,	57,895	57,415	47,577	26,803	27,049
338	Williams & Candee,	44,244	43,780	30,974	14,259	18,368
1,121	Wright, J. T. & Co.,	50,068	49,575	41,296	24,213	33,015
824	Whitney, G. J. & Co.,	50,556	50,063	41,886	23,663	31,834
155	Wright, P. D.,	62,539	58,655	47,617	27,341	38,364
784	Woodworth, S.,	56,290	55,710	45,592	23,149	31,244
1,110	Williams, Geo. & Co.,	41,558	51,036	42,266	24,162	33,104
902	Walker, W.,	47,057	46,593	38,821	22,743	31,265
1,010	Woodruff & Rae,	53,393	52,821	43,107	24,071	33,921
1,199	Williams, H. E., .....	.....	.....	.....	14,662	19,068

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 255.	No. 256.	No. 258.	No. 257.	No. 259.
	Engineers' estimate,.....	\$393,491	\$99,635	\$32,113	\$70,468	\$231,462
106	Alley, S. P.....	359,048	89,389	30,748	62,884	232,460
1,139	Archer & Boyce.....	.....	.....	25,235	.....	212,007
619	Andrus & Hall.....	.....	.....	20,706	.....	.....
286	Baker, J. W.....	.....	.....	24,671	.....	211,875
1,045	Burchard, B. & Co.....	.....	.....	22,129	.....	.....
994	Baldwin, G. W.....	.....	94,036	31,793	.....	.....
783	Bloss & Adams,.....	.....	.....	28,423	.....	.....
231	Beals, S. & D. C.....	.....	.....	23,939	53,570	219,915
363	Barnard, A.....	216,947	72,016	26,237	51,000	162,396
79	Burrell, T.	231,219	67,078	33,098	64,191	253,495
170	Beebee, J. L. & Co.....	444,738	88,377	19,191	47,847	213,118
484	Burr, A. L.....	313,141	73,672	32,662	67,197	237,959
156	Buell, W.....	364,964	98,441	36,576	64,048	317,916
1,177	Ball, S. & S. S.....	365,860	102,900	28,943	56,880	215,739
822	Barker & Roberts.....	284,014	81,148	33,286	84,734	308,161
959	Burton & O'Maley.....	465,221	130,261	31,475	59,716	235,050
474	Britton & Swain.....	264,031	78,011	29,595	61,743	210,888
1,142	Boyce, P.....	342,271	85,950	26,418	52,875	237,668
398	Buchan, P. G.....	354,770	79,513	34,768	70,431	258,456
1,023	Barry, M. & Co.....	395,533	100,203	39,976	87,061	353,307
1,201	Barker, C. C. & Co.....	493,539	130,156	25,070	.....	.....

1, 193	Brayton & Morris,.....	701,768	181,286	44,702	117,806	490,902
1, 238	Buell, W. W.....	.....	.....	.....	.....	198,586
848	Burns, J.....	346,242	91,042	26,913	61,057	213,045
275	Bronson, A.....	.....	.....	.....	.....	203,245
1, 207	Barker, W. & Co.....	602,381	76,034	51,976	.....	322,392
1, 117	Barney & Hildreth.....	.....	.....	53,438	.....	.....
928	Collins, J. & Co.....	438,914	77,563	39,465	17,869	230,109
1, 116	Cleary & Smith,.....	279,580	76,220	54,341	27,248	188,830
214	Curtis, D. F.....	319,656	82,196	57,449	28,534	229,260
33	Cummings, J. P. & T.....	843,931	135,958	77,630	29,149	547,929
1, 026	Candee & Williams.....	367,594	92,133	61,926	21,786	203,658
1, 057	Church, W. S.....	389,509	81,254	58,634	30,896	319,769
867	Candee, W. & Co.....	319,233	71,073	50,184	25,866	217,075
518	Clark, John L. & Co.....	.....	.....	.....	27,493	.....
832	Carmichael, B. F. & Co.....	.....	.....	.....	32,759	258,415
763	Coleman, W. & Co.....	.....	.....	73,762	36,809	215,662
364	Clark & Learned,.....	356,532	84,072	59,191	28,742	220,564
795	Case & Baker,.....	194,101	84,936	52,885	24,363	325,460
647	Cady, H. & Co.....	306,386	67,278	48,477	23,128	195,453
891	Culver, O.....	.....	.....	.....	25,341	.....
1, 024	Colt, H. V.....	390,004	84,745	60,752	30,655	219,429
796	Church, R.....	376,064	86,202	62,186	32,526	226,156
631	Cochrane & Rigney.....	.....	81,187	49,959	26,819	.....
1, 234	Cole, E. & Co.....	359,852	92,833	57,045	29,748	235,832
942	Chase, Levi.....	.....	71,203	51,281	27,209	206,299
321	Chamberlain, C. T. & Co.....	352,654	86,398	60,185	.....	.....
1, 232	Cassidy, T.....	528,586	134,744	.....	.....	.....

BIDS ON SECTION WORK—(CONTINUED.)

432

[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	No. 255.	No. 256.	No. 257.	No. 258.	No. 259.
	Engineers' estimate,	\$393,491	\$99,635	\$70,468	\$32,113	\$231,462
910	Dodge & Comstock.....	278,016	69,776	49,470	24,463	179,503
1,035	De Graw, C. J. & H.....	182,833	56,116	40,390	19,943	130,924
888	Decker, N. H.....	335,724	61,167	38,918	19,785	228,570
146	Douglass, A. W. & Co.....	525,870	120,992	74,058	23,881	411,537
1,112	De Lano, M. & Co.....	393,615	85,307	54,634	22,360	221,364
52	Ennis, E. & Co.....	360,366	86,244	57,291	35,466	232,329
408	Ellicott & Bentley	367,842	82,799	59,992	30,808	198,521
422	Ennis, R.....	253,071	78,061	54,360	27,045	193,467
1,173	Estabrook, T. D. & Co.....	444,018	77,404	56,485	25,442	382,000
1,083	Farwell, S. & Co.....	418,841	80,920	52,919	24,350	299,292
46	Grant, L. A. G. B.....	444,738	88,777	64,191	33,398	.....
835	Green, N. B. & Co.....	.....	75,716	53,231	19,038	.....
767	Hart, J. & Co.....	.....	63,412	43,975	17,300	.....
1,200	Hart & Palmer.....	.....	58,177	44,563	17,673	.....
499	Hayes, J.....	320,285	73,089	50,388	18,159	193,697
1,036	Haggerty & Dimond.....	404,432	82,128	39,878	18,300	230,180
1,088	Houghtailing, A.....	.....	.....	41,693	30,840	.....
886	Haughey, J. & Co.....	439,746	80,153	38,836	17,855	136,330
849	Hart, M. & Co.....	.....	69,212	48,096	17,981	.....
37	Homan, B.....	.....	.....	50,279	26,374	219,261
1,195	Hooker, H. E.....	.....	77,056	54,960	27,312	198,743

920	Hunt, J. S.....	449,443	79,244	66,242	28,055	289,435
846	Jones, S. & Co.....	422,952				240,144
782	Johnson, M. F.....	359,914				207,599
826	Johnson, W. & Co.....	289,520	78,018	51,609	20,706	226,194
1,181	Kimball, W. & Co.....	338,158	90,982	43,054	20,738	231,448
716	Kingsley & James.....	264,888	93,384	67,036	32,620	201,489
803	Kerns, E. & T.....				25,708	217,394
573	Knapp, E.....				26,664	
32	Lacey, C. T.....			63,403	24,815	
973	Law G.....	347,495	68,009	60,137	29,869	224,398
300	Loomis, H. & Co.....		69,205	36,166	18,958	
405	Loomis, W.....					204,301
1,075	Ludington, M. E. & Co.....		71,325			
780	Learned, C. G. & Co.....		86,904	61,034		
582	McPherson, J. J.....					
1,203	Moore, J. & Co.....				31,900	235,203
125	McCabe, J. & Co.,.....	184,965	111,981	76,906	28,772	219,471
162	Milliner, J. P.....	328,019	89,130	59,816	25,903	192,460
1,156	Mills & Harwood.....	305,126	78,801	52,821	27,427	234,854
947	McDonald, A. P.....	367,961	99,159	65,335	22,300	206,494
901	Mills, T. G. & W.....	284,764	65,706	47,416	25,716	275,589
993	McDonald, J.....	216,468	59,198	41,574	22,040	180,091
451	Martindale & Ferrell.....	286,906	70,513	50,354	20,351	155,284
1,158	McWilliams, E. & A.....	369,907	103,428	71,843	22,399	253,230
1,102	Mitchell, C.....			40,950	34,936	220,051
190	Moore & Barnard.....	353,565	82,342	55,175	21,864	
540	McArthur, J. R. & W.....	221,066	63,445	46,522	23,027	265,639
					24,468	147,680

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 255.	No. 256.	No. 257.	No. 258.	No. 259.
	Engineers' estimate,.....	\$393,491	\$99,635	\$70,468	\$32,113	\$231,462
1,061	McGovern, J. & Co.....	237,506	.....	.....	.....	171,408
1,209	McCartney, H. & Co.....	518,999	91,377	50,583	17,985	.....
1,049	Matthews, J. B. & Co.....	317,625	83,675	49,340	19,244	226,878
859	Mudge, S. W.....	336,785	78,064	34,984	27,859	.....
66	Mirick, J. & H.....	.....	60,564	43,695	22,776	227,435
825	Morris, J.....	.....	66,264	42,312	.....	.....
121	Marcellus, A.....	.....	86,839	.....	.....	.....
964	Mead, J. A.....	.....	.....	49,321	23,205	254,968
394	Norman & Hewes.....	.....	81,007	58,407	25,873	.....
1,067	Nichols, J. H.....	267,871	100,463	66,800	24,758	275,318
760	Nichols, C. & Co.....	385,180	72,781	43,464	20,317	204,510
1,180	Nelson, R. & Co.....	310,713	.....	.....	.....	210,679
907	O'Brien, J.....	.....	.....	57,449	27,442	.....
468	Oswald J. & Co.....	288,514	79,843	57,081	29,007	207,138
387	Osburn, N.....	260,315	75,086	54,627	30,024	187,327
889	O'Keefe & Boyle.....	349,926	86,947	52,478	38,925	.....
934	Olney, J. & Co.....	324,063	84,803	.....	.....	.....
1,016	Peacock, J. & J.....	.....	.....	58,575	22,925	.....
575	Peck, L. J.....	523,706	142,305	92,240	36,043	256,969
475	Pratt, F. & Co.....	352,985	80,560	42,638	16,542	204,881
1,183	Peacock, J. & S. E.....	.....	.....	57,336	26,014	.....

1,215	Page, D. & Co.	.....	79,482	52,269	17,983	308,161
703	Packard & Laplam.	.....	59,702	.....	.....	.....
541	Price & Cook.	.....	72,951	49,509	23,534	231,283
872	Phelps, W.	.....	74,111	47,702	23,157	206,289
555	Peirce S. & Co.	.....	85,546	58,151	24,408	253,038
143	Paine, N. E.	.....	.....	.....	.....	229,171
529	Pringle, B.	.....	80,476	.....	.....	.....
774	Peterson, J.	.....	74,423	.....	.....	.....
1,233	Peirce, H.	.....	.....	.....	.....	.....
913	Quackenboss, H. & Co.	.....	68,416	54,577	25,426	220,693
283	Rose, C. & A. G.	.....	.....	50,510	22,047	.....
560	Rowley & Foster.	.....	100,759	67,824	25,789	.....
880	Richman & Morley.	.....	87,352	46,810	23,322	254,022
730	Richardson, D. H.	.....	95,713	62,137	28,899	219,564
134	Reed, N.	.....	69,435	39,698	18,454	170,025
932	Rae, A.	.....	.....	.....	31,979	255,325
768	Sherman, B.	.....	91,597	66,111	35,185	234,543
643	Snedaker, A.	.....	.....	.....	28,325	.....
997	Smith, G.	.....	90,912	64,874	32,790	258,182
1,196	Sloane, W. M.	.....	101,276	73,004	38,488	260,081
1,081	Sloan, W. M., A. & Co.	.....	77,917	47,196	20,039	301,392
804	Swain & Nodwell.	.....	94,829	58,799	26,628	254,662
1,047	Sherrill, J. H. & Co.	.....	77,349	56,402	29,437	196,945
195	Spencer, U.	.....	86,668	61,816	29,952	222,677
1,031	Stansbury, E.	.....	69,889	47,823	23,705	185,381
794	Sherman, J. W.	.....	86,202	62,186	32,526	227,057
1,169	Severance, H. M.	.....	87,856	61,760	30,936	224,477

BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 255.	No. 256.	No. 257.	No. 258.	No. 259.
	Engineers' estimate,.....	\$393,491	\$99,635	70,463	\$32,113	\$231,462
1,077	Sage & Dunham.....	.....	.....	45,905	21,582	192,095.
1,247	Storrs, H. E. & Co.....	.....	86,637	.....	30,850	229,396
572	Strong, M.....	.....	.....	.....	33,917	.....
817	Smith & Tracey.....	439,562	84,440	57,404	30,204	350,269
1,206	Savage, J. & Co.....	472,680	102,859	76,602	39,157	267,011
586	Seeley, L.....	344,876	91,933	66,139	33,110	247,387
533	Smith, E. P.....	354,288	87,129	60,314	30,118	229,170
1,011	Sharp, D. & Co.....	355,977	63,447	40,446	.....	231,282.]
396	St. John & Dunham.....	355,419	.....	.....	.....	.....
558	Turner, O.....	378,580	89,179	57,035	34,170	227,857
206	Thompson & Nelson.....	297,132	74,755	52,508	21,319	205,914
1,161	Upton, J. & Co.....	324,278	90,169	.....	.....	.....
395	Vernam, J. & Co.....	358,505	85,486	60,715	29,024	221,282
719	Van Der Karr, L. & Co.....	232,389	69,048	52,232	26,990	167,187
1,076	Van De Mark, J. & Co.....	324,855	.....	54,794	24,273	208,504
533	Van Riper, A. & Co.....	.....	75,437	32,199	16,221	.....
266	Welles, H. S.....	382,834	81,792	57,049	24,408	285,743
338	Williams & Candee.....	383,360	83,087	47,888	15,914	250,196
1,121	Wright, J. T. & Co.....	376,064	86,202	62,186	32,526	232,601
824	Whitney, G. J. & Co.....	360,614	88,539	60,420	28,772	219,471
155	Wright, P. D.....	419,338	117,060	80,808	39,750	289,034

784	Woodworth, S.....	405,558	96,136	67,226	32,202	278,955
1,110	Williams, G. & Co.....	388,822	88,385	63,033	33,159	219,514
902	Walker, W.....	325,406	82,091	58,961	30,540	209,507
1,199	Williams, H. E.....	.....	67,785	48,153	17,423	.....
1,090	Walch, R. & Co.....	.....	73,894	51,434	26,374	215,269

BIDS ON SECTION WORK—(CONTINUED.)

438

ASSEMBLY

106.....	Allen, S. P.,	51,262	74,741
679.....	Andrus & Hall,	43,548	69,568
363.....	Barnard, A.,	44,875	61,012
79.....	Burrell, T.,	46,404	70,460
170.....	Beebee, J. L. & Co.,	35,377	42,402
484.....	Burr, A. L. & Co.,	68,135	.....
156.....	Buell, W.,	62,692	70,730
1,177.....	Ball, S. & S. S.,	45,878	46,986
822.....	Barker & Roberts,	40,441	57,654
959.....	Barton & O'Maley,	50,141	46,031
474.....	Britton & Swain,	47,621	51,081
1,171.....	Buell, O.,	42,933	.....
1,142.....	Boyce, P.,	39,383	48,349
398.....	Buchan, P. G.,	59,410	.....
1,028.....	Barry, M. & Co.,	56,507	.....
1,198-4.....	Brayton & Morris,	62,479	63,828
1,238.....	Buell, W. W.,	46,583	.....
1,201.....	Barker, C. C. & Co.,	46,012	.....
848.....	Burns, J.,	42,874	.....
598.....	Bell, J. L., .....	.....	45,030
783.....	Bloss & Adams, .....	.....	57,992

3.....	Charliff, O., .....	.....	53, 433
891.....	Culver, O., .....	.....	73, 311
1, 002.....	Corbett, M., .....	.....	.....
214.....	Curtis, D. F., .....	.....	.....
1, 026.....	Candee & Williams, .....	.....	55, 472
867.....	Candee, W. & Co., .....	.....	45, 031
518.....	Clark, J. S. & Co., .....	.....	.....
832.....	Carmichael, B. F. & Co., .....	.....	46, 792
763.....	Coleman, W. & Co., .....	.....	.....
795.....	Case & Baker, .....	.....	.....
646-7.....	Cady, H. & Co., .....	.....	50, 240
928.....	Collins, J. & C., .....	.....	.....
1, 116.....	Cleary & Smith, .....	.....	59, 249
1, 057.....	Church, W. S., .....	.....	.....
364.....	Clark & Learned, .....	.....	59, 725
1, 024.....	Colt, H. V., .....	.....	.....
796.....	Church, R., .....	.....	79, 095
942.....	Chase, L., .....	.....	.....
1, 232.....	Cassidy, T., .....	.....	.....
1, 234.....	Cole, E. & Co., .....	.....	53, 806
689.....	Chipman, J. B., .....	.....	38, 064
631.....	Cochrane & Rigney, .....	.....	58, 128
910.....	Dodge & Comstock, .....	.....	.....
1, 035.....	DeGraw, C. J. & H., .....	.....	35, 791
888.....	Decker, N. H., .....	.....	47, 216
146.....	Douglass, A. W. & Co., .....	.....	.....
1, 112.....	Delano, M. & Co., .....	.....	.....
		53, 887	
		43, 781	
		38, 555	
		44, 110	
		44, 375	
		36, 618	
		52, 074	
		49, 191	
		43, 287	
		35, 857	
		36, 040	
		43, 789	
		51, 497	
		45, 091	
		54, 374	
		68, 262	
		51, 478	
		48, 358	
		
		
		46, 970	
		44, 137	
		31, 555	
		37, 707	
		44, 727	
		44, 184	

BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 260.		No. 262.	
		Engineer's estimate,			
52	Ennis, E. Co.,	47,632	...	...	...
408	Ellicott & Bentley,	49,516	71,026	71,026	71,026
422	Ennis, R.,	38,329	45,446	45,446	45,446
1,173	Estabrook, T. D. & Co.,	52,672	...	...	...
46	Grant, L. A. G. B.,	45,894	70,460	70,460	70,460
835	Green, N. B. & Co.,	38,612	...	...	...
767	Hart, J. & Co.,	32,710	38,320	38,320	38,320
1,200	Hart & Palmer,	24,713	38,938	38,938	38,938
499	Haves, J.,	33,093	44,917	44,917	44,917
1,036	Hagerty & Dimon,	44,473	...	...	...
849	Hart, M. & Co.,	31,369	...	...	...
37	Homan, B.,	38,184	...	...	...
1,195	Hooker, H. E.,	69,496	...	...	...
601	Hardy, J., . . . . .	...	72,042	72,042	72,042
243	Hughes, J. B., . . . . .	...	58,889	58,889	58,889
826	Johnsen, W. & Co.,	43,244	51,092	51,092	51,092
846	Jones, S. & Co.,	43,896	40,318	40,318	40,318
782	Johnson, M. F.,	87,711	...	...	...
249	Jenkinson, J. & Co., . . . . .	...	71,774	71,774	71,774
1,181	Kimball, W. & Co.,	33,294	57,507	57,507	57,507
716	Kingsley & James,	68,443	...	...	...
	Engineer's estimate,	\$62,166	\$57,112	\$57,112	\$57,112

513.....	Knapp, E.,.....	57,400	41,646
32.....	Lacey, C. T.,.....	38,771	.....
973.....	Law, G.,.....	51,284	.....
405.....	Loomis, W.,.....	51,976	.....
125.....	McCabe, J. & Co.,.....	40,919	.....
162.....	Milliner, J. P.,.....	49,618	61,428
1,156.....	Mills & Harwood,.....	40,794	48,776
947-9.....	McDonald, A. P.,.....	46,423	54,353
993.....	McDonald, J.,.....	33,784	.....
901.....	Mills, T. G. & W.,.....	35,565	49,047
451.....	Martindale & Ferrel,.....	42,350	.....
1,158.....	McWilliams, C. & H.,.....	61,580	66,329
190.....	Mocre & Barnard,.....	47,819	.....
540.....	McArthur, W. & J. R.,.....	35,447	37,568
1,209.....	McCartney, H. H.,.....	36,217	49,529
1,049.....	Matthews, J. B. & Co.,.....	39,482	...
66.....	Mirick, J. & H.,.....	39,020	48,905
964.....	Mead, J. A.,.....	38,731	.....
27.....	Moore, I. & Co.,.....	.....	76,985
789.....	Moss, J. B.,.....	.....	48,190
1,085.....	Mills, M. H.,.....	.....	109,768
1,061.....	McGovern, T.,.....	.....	65,155
1,189.....	Nelson, R. & Co.,.....	.....	55,515
1,067.....	Nichols, J. H.,.....	46,329	.....
1,235.....	Niven, A. H.,.....	35,975	49,020
760.....	Nichols, C. & Co.,.....	.....	60,047
387.....	Osburn, N.,.....	50,554	62,236

BIDS ON SECTION WORK—(CONTINUED.)

442

ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	
	Engineers' estimate,	
468.....	Oswald, J. & Co.,.....	54,501
907.....	O'Brien, J.,.....	42,863
1,017.....	Peacock, J. & J.,.....	62,783
575.....	Peck, L. J.,.....	38,827
475.....	Pratt, F. & Co.,.....	39,919
1,183.....	Peacock, J. & S. E.,.....	37,519
1,215.....	Page, D. & Co.,.....	43,093
541.....	Price & Cook,.....	38,001
872.....	Phelps, W.,.....	41,102
555.....	Peiree, S. & Co.,.....	50,604
913.....	Quackenboss, H. & Co.,.....	41,174
880.....	Richman & Morley,.....	76,164
730.....	Richardson, D. H.,.....	66,117
768.....	Sherman, B.,.....	46,716
997.....	Smith, G.,.....	73,016
1,196.....	Sloan, W. M.,.....	33,529
1,031.....	Sutherland, A. & Co.,.....	35,585
804.....	Swain & Nodwell,.....	55,545
1,047.....	Sherrill, J. H. & Co.,.....	37,744
195.....	Spencer, H.,.....	57,331
1,031.....	Stansbury, E.,.....	

794.....	Sherman, J. W.,.....	68,262	79,025
1,169.....	Severance, H. M.,.....	54,991	62,283
897.....	Sage & Dunham,.....	44,664	51,867
817.....	Smith & Tracy,.....	44,320	53,157
1,228.....	Storrs, H. E. & Co.,.....	.....	51,163
558.....	Turner, Otis,.....	67,415	78,398
395.....	Vernam, J. & Co.,.....	57,862	48,530
719.....	Van Der Karr, L. & Co.,.....	56,624	63,239
1,076.....	Van Demark, J. & Co.,.....	48,124	.....
533.....	Van Riner A & Co.,.....	25,032	.....
93.....	Van D. A. & Co.,.....	.....	51,078
338.....	Williams & Candee,.....	30,423	46,009
1,121.....	Wright, J. T. & Co.,.....	68,617	79,025
824.....	Whitney, G. J. & Co.,.....	64,801	.....
155.....	Wright, P. D.,.....	60,702	.....
784.....	Woodworth, S.,.....	49,283	55,501
1,110.....	Williams, G. & Co.,.....	57,669	62,035
902.....	Walker, W.,.....	47,016	.....
1,199.....	Williams, H. E.,.....	34,414	.....

BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 266.	No. 267.	No. 268.	No. 269.	No. 270.
	Engineer's estimate,.....	\$37,354	\$33,084	\$21,532	\$25,572	\$25,476
106	Allen, S. P.,.....	31,646	32,949	28,001	23,788	.....
114	Avery, E.,.....	47,024	42,636	27,035	30,411	31,371
31	Angel, B. F.,.....	43,027	37,265	27,740	26,877	28,271
384	Buell, J.,.....	48,087	41,949	24,693	27,884	30,804
598	Bell, J. L.,.....	31,263	28,796	19,557	24,418	22,426
79	Burrell, T.,.....	42,373	37,910	26,618	30,727	32,077
302	Barnard, A.,.....	39,058	34,411	23,175	25,141	25,865
317	Butler, O. jr. & Co.,.....	34,436	32,055	20,038	23,960	23,450
171	Beebee, J. L. & Co.,.....	34,766	31,421	20,697	25,379	25,347
1,178	Ball, S. & Co.,.....	33,980	31,988	.....	.....	22,322
1,194	Brayton & Morris,.....	48,123	44,060	.....	.....	.....
822	Barker, A. B. & Co.,.....	49,272	42,025	32,531	37,733	37,282
156	Buell, W.,.....	51,388	46,368	30,213	35,469	35,101
957	Barton, D. R. & Co.,.....	39,450	33,324	34,225	29,026	28,681
1,142	Boyce, P.,.....	44,180	29,458	19,666	.....	.....
474	Britton, J. W. & Co.,.....	32,807	29,756	19,803	23,199	24,170
783	Bloss, W. C. & Co.,.....	32,851	31,928	20,363	.....	.....
761	Breed, J. & Co.,.....	36,818	31,610	20,704	26,440	25,294
1,923	Barry, M. & Co.,.....	47,111	38,849	29,588	36,736	35,885
214-15	Curtis, D. F.,.....	35,742	32,179	21,903	25,733	25,314
522	Cole, P. P.,.....	35,257	26,827	20,413	26,911	26,106

301	Curtis, H. M.,.....	50,732	44,943	.....	.....	.....
646	Cady, H. & Co.,.....	38,598	29,987	.....	27,349	27,632
3	Charliff, O.,.....	87,540	33,310	.....	25,431	25,452
832	Carmichael, B. F. & Co.,.....	38,101	.....	.....	.....	.....
867	Candee, W. & Co.,.....	36,402	31,779	.....	27,082	27,085
1,026	Candee, D. & Co.,.....	34,590	29,001	.....	26,795	25,190
1,189	Callender, G. F. & Co.,.....	43,677	38,391	.....	31,240	30,883
49	Colton, J. C. & Co.,.....	39,280	36,075	.....	29,117	29,084
1,116	Cleary, W. & Co.,.....	45,418	37,280	.....	.....	32,903
1,234	Cole, E. & Co.,.....	48,604	37,059	.....	.....	.....
631	Cochrane, J. & Co.,.....	38,134	34,212	.....	.....	.....
518	Clark, J. L. & Co.,.....	33,266	29,726	.....	24,946	22,210
1,024	Colt, H. V.,.....	40,857	36,638	.....	27,596	27,718
1,055	Clyde, M. A. & Co.,.....	.....	37,497	.....	37,743	34,515
364	Clark, S. & Co.,.....	.....	33,316	.....	.....	.....
1,002	Corbett, M.,.....	.....	.....	.....	.....	.....
388	Decker, N. H.,.....	34,994	32,070	.....	22,673	24,335
1,034	De Graw, C. J. & Co.,.....	31,287	26,075	.....	21,986	22,906
148	Daniels, W. P. & Co.,.....	.....	.....	.....	.....	29,843
408	Ellicott, J. & Co.,.....	40,004	36,324	.....	29,071	28,344
46	Grant, L. A. G. B.,.....	33,158	31,508	.....	26,062	26,012
736	Gray, J. J.,.....	42,373	37,910	.....	30,727	32,027
601	Hardy, J.,.....	39,418	34,788	.....	26,540	24,986
849	Hart, M. & Co.,.....	31,241	25,835	.....	23,199	23,678
280	Hinds, F. & Co.,.....	39,823	34,734	.....	28,481	28,453
920	Hunts, S. J. & Co.,.....	39,223	34,125	.....	.....	.....
767	Hart, J. & Co.,.....	34,478	26,861	.....	.....	.....

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 266.		No. 267.		No. 268.		No. 269.		No. 270.	
		Engineers' estimate,.....		\$37,354		\$33,084		\$21,532		\$25,572	
894	Hudnot, J. O. & Co.,.....	34,381		30,982		20,295		24,240		24,219	
967	Hall, J.,.....	29,220		25,031		18,533		.....		.....
499	Hayes, J.,.....	40,058		33,081		24,902		.....		.....
1,195	Hooker, H. E.,	40,889		55,887		22,938		26,971		27,711	
1,200	Hart, S. & Co.,.....	.....		.....		16,371		.....		.....
168	Jerome, H. K. & Co.,.....	56,745		47,198		26,105		.....		.....
249	Jenkinson, J. & Co.,	36,660		35,805		20,534		25,599		25,383	
846	Jones, S. & Co.,.....	39,564		29,610		22,470		27,396		28,338	
826	Johnson, W. & Co.,	33,360		30,734		20,018.		.....		23,069	
634	Joslin, C., .....	.....		.....		.....		20,605		20,197	
718	Kingsley, A. & Co.,	45,397		39,059		25,195		33,970		34,310	
801	Kerns, E. & T.,.....	41,057		.....		.....		.....		.....
300	Loomis, H. & Co.,	40,141		.....		19,255		21,673		23,879	
916	Lyman, T. A. E. & Co.,.....	45,397		39,059		25,195		33,820		34,395	
34	Moore, C. H. & Co.,	40,378		37,250		24,797		30,161		32,566	
1,210	Midler, L. J. & Co.,.....	31,323		29,548		18,532		24,710		23,478	
789	Moss, J. V.,.....	30,316		34,158		22,007		27,421		26,310	
162	Milliner, J. P. & Co.,.....	40,555		32,386		22,106		29,262		30,792	
1,048	Matthews, J. B. & Co.,	39,895		30,285		20,281		27,071		26,500	
839	Marsh, W. N.,	31,624		26,679		19,331		23,412		22,687	
900	Mills, T. G. & Co.,.....	39,124		28,847		19,975		24,402		24,809	

753	McCarthy, H. & Co.,	32,113	23,521	19,873	25,531	25,034
964	Mead, J. A.,	36,791	31,318	22,498	.....	.....
1,158	McWilliams & Co.,	49,250	43,500	.....	.....	.....
1,061	McGovern, J. & Co.,	42,149	.....	.....	28,517	29,529
540	McArthur, J. R. & Co.,	41,082	.....	.....	.....	.....
949	, A. P.,	.....	33,042	22,223	27,646	28,057
1,068	H.,	48,116	33,042	22,223	28,070	28,057
1,235	Niven, A. H.,	49,889	.....	.....	.....	.....
216	O'Neill, W. Jr., & Co.,	.....	31,211	22,133	.....	.....
387	Osburn, N.,	44,398	31,181	25,319	29,411	30,947
396	Palmer, C. G.,	38,771	33,545	23,215	27,955	27,904
411	Peck, L. J.,	52,875	47,832	25,790	34,298	28,458
1,016	Peacock, J. & Co.,	.....	36,142	.....	.....	.....
1,183	Peacock, J. & Co.,	.....	34,362	.....	.....	.....
754	Palmer, N.,	.....	.....	.....	24,323	24,271
1,128	Ross, M. L.,	45,964	44,882	26,405	30,709	30,889
590	Ryan, J. & Co.,	38,055	33,824	23,284	27,790	28,152
733	Richardson, D. H.,	35,998	30,375	21,860	26,240	26,491
124	Reed, W.,	.....	.....	22,733	.....	.....
572	Strong, N.,	59,817	51,144	.....	34,433	57,469
1,196	Sloane, W. M.,	52,931	44,441	28,339	33,501	35,453
1,117	Schultz, A. H.,	45,397	39,149	25,195	38,820	34,200
1,206	Savage, J. & Co.,	51,104	44,022	32,715	37,266	40,821
817	Smith, J. P. & Co.,	52,662	36,871	.....	.....	.....
1,011	Sharp, D. & Co.,	36,474	31,818	21,605	25,683	25,776
794	Sherman, J. W.,	44,302	37,850	24,138	28,622	29,847
1,047	Sherrill, J. H. & Co.,	42,257	37,262	24,924	.....	.....

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 266.	No. 267.	No. 268.	No. 269.	No. 270.
	Engineers' estimate,	\$37,354	\$33,084	\$21,532	\$25,572	\$25,476
195	Spencer, U.,	34,230	30,771	20,379	24,058	24,312
768	Sherman, B.,	48,633	41,928	26,246	31,253	32,591
1,169	Severance, H. M.,	48,802	43,728	26,683	32,089	34,008
1,228	Storrs, H. E. & Co.,	43,505	36,122	24,406	29,233	30,190
569	Thomson, C. B.,	37,271	33,764	20,878	24,950	25,375
603	Thompson, J. R.,	40,838	31,762	21,011	25,933	24,371
558	Turner, O.,	45,976	38,920	25,807	30,290	31,517
816	Vernam, A.,	33,305	32,536	20,208	24,727	24,401
719	Van Der Karr, L. & Co.,	43,917	37,261	28,465	31,780	31,673
395	Vernam, J. & Co.,	36,468	33,721	22,603	26,136	26,450
1,121	Wright, J. T. & Co.,	44,302	37,850	24,138	28,622	29,847
155	Wright, P. D.,	47,651	42,775	25,593	30,755	...
1,199	Williams, H. E.,	29,358	25,651	17,782	23,998	23,328
338	Williams, L. L. & Co.,	30,208	25,386	17,508	22,478	22,708
902	Walker, W.,	40,167	35,326	23,322	27,065	27,472
1,110	Williams, G. & Co.,	45,307	36,991	25,438	30,768	31,893
287	Ward, M. C., . . . . .	...	44,621	23,793	28,422	32,766

BIDS ON SECTION WORK—(Continued.)

No. of proposition.	NAMES OF BIDDERS.	No. 271.	No. 272.	No. 273.	No. 274.	No. 275.
		Engineers' estimate,				
		\$24,416	\$29,847	\$25,914	\$22,857	\$24,882
31	Angell, B. F.	25,336	32,336	27,542	24,152	25,884
384	Buell, J.	27,404	36,654	28,352	24,897	.....
598	Bell, L. J.	20,833	26,479	24,078	20,499	21,908
79	Burrell, T.	29,492	35,971	31,313	28,143	29,883
362	Barnard, A.	24,163	31,983	27,549	22,943	.....
317	Butler, O., jun.	22,697	28,074	24,331	21,712	23,545
171	Beebee, J. L. & Co.	23,988	28,498	24,657	23,690	25,223
1,178	Ball, S. & Co.	22,288	28,326	24,274	.....	.....
832	Barker, A. B. & Co.	36,320	41,682	37,998	35,054	36,802
156	Buell, W.,	34,490	40,998	36,174	32,267	34,777
957	Barton, D. R. & Co.	27,868	30,341	28,921	25,210	27,110
474	Britton, J. W. & Co	23,022	27,027	23,985	21,268	22,792
761	Breed, J. & Co.	24,294	28,527	26,106	22,884	24,491
1,023	Barry, M. & Co.	35,716	37,204	35,834	33,172	34,220
361	Bridges, E. T. & Co.	.....	30,604	27,732	24,897	26,753
402	Bliss, R. & Co.	.....	29,432	25,035	23,297	24,292
848	Burns, J.	.....	.....	.....	.....	29,552
215	Curtis, D. F.	24,789	30,226	25,898	23,573	25,689
522	Cole, P. P.	24,258	27,947	25,010	23,983	27,367
646	Cady, H. & Co.	26,194	29,866	26,696	25,513	30,122
1,055	Clyde, M. A. & Co.	29,796	57,416	.....	.....	24,964

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 271.	No. 272.	No. 273.	No. 274.	No. 275.
	Engineers' estimate,.....	\$24,416	\$29,847	\$25,914	\$22,857	\$24,882
3	Charliff, O.....	23,733	29,431	25,801	22,745	26,269
867	Candee, W. & Co.....	26,448	30,312	28,524	25,062	24,255
1,026	Candee, D. & Co.....	24,529	27,781	25,831	22,781	.....
1,189	Callender, G. F. & Co.....	28,288	33,788	30,352	26,963	28,736
49	Colton, J. C. & Co.....	28,025	32,511	28,075	25,561	27,284
1,116	Cleary, W. & Co.....	31,534	36,446	.....	.....	.....
518	Clark, J. L. & Co.....	23,281	27,050	24,533	21,269	22,405
1,024	Colt, H. V. & Co.....	25,874	32,132	28,102	24,721	26,543
888	Decker, N. H.....	23,147	26,689	22,538	22,821	26,366
1,034	De Graw, C. J. & Co.....	21,088	24,428	21,346	20,237	21,395
148	Daniels, W. P.....	29,225	31,086	29,645	.....	.....
408	Ellicott, J. & Co.....	27,815	33,139	29,562	26,499	28,182
736	Gray, J. J.....	24,482	27,341	23,787	18,974	20,277
46	Grant, L. A. G. B.....	29,442	35,921	31,263	28,351	30,125
601	Hardy, J.....	23,937	31,289	25,571	22,067	23,643
849	Hart, M. & Co.....	22,184	24,407	.....	.....	.....
1,195	Hooker, H. E.....	25,749	31,843	27,414	24,458	26,097
326	Ingraham, J.....	24,540	31,738	26,107	23,362	24,883
249	Jenkinson, J. & Co.....	22,890	28,266	24,429	23,374	23,433
846	Jones, S. & Co.....	26,418	27,863	27,171	24,564	26,427
826	Johnson, W. & Co.....	21,902	26,435	23,442	20,702	23,105

634	.....	19,805	.....	.....	.....	.....	.....	.....	.....
718	A Co.....	30,581	38,035	29,414	27,908	30,920	.....	.....	.....
300	Co.....	25,674	24,435	21,718	20,750	22,190	.....	.....	.....
916	E. & Co.....	30,481	38,035	30,124	26,520	30,920	.....	.....	.....
32	.....	.....	.....	26,445	23,413	22,098	.....	.....	.....
34	A Co.....	27,877	33,047	28,790	25,630	27,521	.....	.....	.....
1,210	& Co.....	22,603	24,808	23,276	22,065	22,482	.....	.....	.....
789	.....	23,804	27,200	23,106	22,061	24,087	.....	.....	.....
162	& Co.....	28,597	32,458	26,530	24,659	28,121	.....	.....	.....
1,048	B. & Co.....	22,558	27,007	22,834	19,804	.....	.....	.....	.....
949	P.....	25,712	29,490	26,751	23,582	26,909	.....	.....	.....
839	.....	28,043	29,947	29,672	21,960	23,753	.....	.....	.....
900	Co.....	23,199	26,953	24,007	21,919	23,324	.....	.....	.....
753	& Co.....	24,308	27,446	24,529	23,194	25,800	.....	.....	.....
1,156	Co.....	22,397	26,226	23,923	21,226	22,812	.....	.....	.....
451	H. & Co.....	27,520	29,649	27,016	.....	.....	.....	.....	.....
1,153	L. & Co.....	.....	.....	.....	.....	51,728	.....	.....	.....
1,068	.....	25,712	29,490	26,741	23,582	26,909	.....	.....	.....
396	.....	26,456	.....	.....	.....	.....	.....	.....	.....
754	.....	22,773	24,510	22,268	20,727	23,958	.....	.....	.....
411	.....	27,769	35,556	32,845	27,969	31,393	.....	.....	.....
1,016	Co.....	.....	.....	.....	23,298	25,239	.....	.....	.....
1,183	Co.....	.....	.....	.....	25,528	26,310	.....	.....	.....
1,123	.....	29,232	35,504	32,064	26,489	28,359	.....	.....	.....
590	Ryan, J. & Co.....	26,990	30,826	27,497	24,756	26,274	.....	.....	.....
733	Richardson, D. H.....	25,342	31,681	27,057	23,699	25,443	.....	.....	.....
282	Rose, C. & Co.....	25,387	30,794	26,694	24,774	26,393	.....	.....	.....

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 273.		No. 275.	
		Engineers' estimate.			
932	Rae, A.....	32,032	32,032	29,473	31,207
572	Strong, M.....	32,280	32,280	26,520	30,920
1,196	Sloane, W. M.....	30,124	30,124	23,371	27,624
1,117	Schultz, A. H.....	25,892	25,892	25,855	23,569
1,206	Savage, J. & Co.....	29,020	29,020	21,983	30,218
1,011	Sharp, D. & Co.....	24,665	24,665	28,241	31,004
794	Sherman, J. W.....	36,008	36,008	28,777	28,163
195	Spencer, U.....	33,007	33,007	26,363	28,163
768	Sherman, B.....	29,785	29,785	23,578	24,218
1,169	Severance, H. M.....	29,843	29,843	22,459	23,765
1,228	Storrs, H. E. & Co.....	26,213	26,213	27,527	29,297
1,047	Sherrill, J. H. & Co.....	24,429	24,429	29,385	30,930
569	Thompson, C. B.....	30,692	30,692	23,937	25,549
603	Thompson, J. R.....	24,851	24,851	26,032	26,891
556	Turner, O.....	32,131	32,131	26,030	27,044
816	Vernam, A.....	27,007	27,007		
719	Van Der Kar, L. & Co.....	27,911	27,911		
395	Vernam, J. & Co.....	29,195	29,195		
287	Ward, M. C.....	33,647	33,647		
1,121	Wright, J. T. & Co.....				

1,191	Williams, H. E.....	22,912	23,402	21,281	20,204	23,074
338	Williams, L. L. & Co.....	21,396	23,064	21,058	20,507	21,879
902	Walker, W.....	25,779	31,196	27,706	24,527	26,176
1,110	Williams, G. & Co.....	29,110	34,285	31,047	27,248	29,329

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 276.	No. 277.	No. 279.	No. 280.
	Engineers' estimate,.....	\$24,827	\$24,159	\$24,265	\$38,421
31	Angell, B. F.,.....	26,390	25,578	25,448	41,186
598	Bell, L. J.,.....	22,671	26,668	.....	.....
79	Burrell, T.,.....	29,528	28,746	28,626	44,933
54	Barnard, W.,.....	24,647	23,221	23,996	41,856
317	Butler, O. jr. & Co.,.....	23,432	24,074	22,514	37,665
171	Beebee, J. L. & Co.,.....	25,409	24,378	24,699	36,861
822	Barker, A. B. & Co.,.....	37,489	36,613	.....	.....
156	Buell, W.,.....	35,561	.....	34,097	51,694
957	Barton, D. R. & Co.,.....	27,772	26,980	28,926	36,173
474	Britton, J. W. & Co.,.....	23,683	22,929	22,350	34,228
761	Breed, J. & Co.,.....	25,214	24,353	24,730	36,585
1,023	Barry, M. & Co.,.....	35,488	34,164	34,091	56,017
361	Bridges, E. T. & Co.,.....	27,623	25,743	26,761	34,792
402	Bliss, R. & Co.,.....	25,988	24,861	.....	.....
848	Burns, J.,.....	29,946	29,298	29,031	39,118
783	Bloss, W. C. & Co.,.....	.....	.....	.....	.....
1,178	Ball, S. & Co.,.....	.....	.....	.....	34,281
1,194	Brayton & Morris,.....	.....	.....	.....	42,042
646.	Cady, H. & Co.,.....	28,572	27,171	26,664	39,943
215	Curtis, D. F.,.....	26,348	25,010	24,954	37,127
1,055	Clyde, M. A.,.....	29,602	27,956	29,332	43,040

3	Charliff, O.,	25, 474	23, 964	25, 391	24, 573	38, 500
876-8	Candee, W. & Co.,	27, 404	26, 619	27, 284	26, 244	34, 315
1, 026	Candee, D. & Co.,	24, 775	24, 015	25, 267	24, 527	38, 032
1, 189	Callender, G. F. & Co.,	30, 604	28, 487	29, 152	29, 632	43, 304
49	Colton, J. C. & Co.,	27, 909	27, 171	27, 963	26, 931	41, 883
518	Clark, J. L. & Co.,	24, 795	24, 198	22, 411	.....	.....
- 1, 024	Colt, H. V.,	27, 126	26, 262	26, 991	26, 107	40, 733
332	Clark, O., . . . . .	.....	.....	.....	.....	37, 746
631	Cochrane, J. & Co., . . . . .	.....	.....	.....	.....	38, 150
1, 034	De Graw, C. J. & Co.,	21, 872	21, 395	21, 950	.....	31, 081
148	Daniels, W. P. & Co., . . . . .	.....	.....	.....	.....	39, 201
1, 221	Everett, G. S. & Co.,	30, 525	30, 547	30, 918	30, 594	.....
408	Ellicott, J. & Co.,	28, 792	27, 983	28, 672	27, 848	40, 903
736	Gray, J. J.,	21, 161	20, 156	22, 084	20, 321	36, 996
46	Grant, L. A. G. B.,	29, 528	28, 746	29, 398	28, 626	44, 943
601	Hardy, J.,	24, 138	22, 701	23, 258	.....	.....
1, 195	Hooker, H. E.,	26, 902	25, 895	26, 579	25, 975	41, 108
535	Hard, G., . . . . .	.....	.....	.....	24, 671	38, 605
280	Hinds, F. & Co., . . . . .	.....	.....	.....	.....	39, 786
103	Harrington, M. H. & Co., . . . . .	.....	.....	.....	.....	36, 895
326	Ingraham, J.,	25, 316	24, 696	.....	24, 456	45, 470
249	Jenkinson, J. & Co.,	24, 006	22, 313	22, 912	.....	.....
846	Jones, S. & Co.,	27, 612	26, 352	27, 374	26, 462	.....
826	Johnson, W. & Co.,	23, 721	22, 879	23, 611	22, 759	36, 531
718	Kingsly, A. & Co.,	29, 898	28, 094	29, 740	27, 624	45, 182
32	Lacey, C. T.,	24, 703	25, 417	22, 626	.....	.....
300	Loomis, H. & Co.,	22, 712	21, 994	29, 740	23, 502	39, 098

BIDS ON SECTION WORK—(CONTINUED.)

456

[ASSEMBLY

1,210	Lyman, T. A. E. & Co.,.....	29,827	28,094	.....	27,575	45,242
31	Moore, C. H. & Co.,.....	28,109	26,350	27,037	91,925	44,694
1,210	Midler, L. J. & Co.,.....	23,527	22,055	23,253	22,683	32,264
789	Moss, J. B.,.....	25,530	23,991	23,430	23,100	32,624
102	Milliner, J. P. & Co.,.....	29,822	26,076	26,153	25,008	42,569
949	McDonald, A. P.,.....	27,627	26,852	27,585	26,557	38,560
839	Marsh, W. N.,.....	24,240	23,430	24,252	23,270	31,869
900	Mills, T. G. & Co.,.....	24,137	23,336	23,994	23,274	36,811
753	McCartney, H. & Co.,.....	26,942	25,008	26,245	24,952	35,498
1,156	Mills, H. P. & Co.,.....	33,551	22,561	23,190	22,606	33,896
1,085	Mills, M. H. & Co.,.....	.....	.....	.....	23,287	35,741
1,068	Nichols, J. H.,.....	27,627	26,737	27,585	26,557	38,580
1,016	Peacock, J. & Co.,.....	25,523	25,066	24,405	.....	.....
754	Palmer, N.,.....	23,962	21,195	24,607	22,085	38,310
1,183	Peacock, J. & Co.,.....	25,642	24,677	24,992	26,254	37,054
411	Peck, L. J.,.....	31,823	30,562	30,495	31,835	46,468
1,128	Ross, M. L.,.....	30,315	29,470	30,138	29,682	41,983
282	Rose, C. & Co.,.....	27,265	26,307	27,155	25,536	.....
590	Ryan, J. & Co.,.....	26,826	26,101	26,868	25,948	39,049
735	Richardson, D. H.,.....	25,894	25,640	27,008	25,808	39,551
1,196	Stearns, W. M.,.....	32,223	31,212	32,000	31,097	56,689

1,117	Schultz, A. H.,.....	29,899	28,074	39,740	27,474	46,242
1,206	Savage, J. & Co.,.....	40,003	.....	.....	.....	.....
794	Sherman, J. W.,.....	28,255	27,399	28,049	56,949	42,834
195	Spencer, U.,.....	24,017	23,366	23,010	23,123	35,504
768	Sherman, B.,.....	31,048	30,003	30,906	29,898	48,103
1,169	Severance, H. M.,.....	31,557	29,622	.....	.....	.....
1,228	Storrs, H. E. & Co.,.....	28,803	27,918	28,708	27,768	40,270
1,047	Sherrill, J. H. & Co.,.....	.....	.....	.....	.....	44,953
817	Smith, J. P. & Co.,.....	.....	.....	.....	.....	42,918
569	Thomson, C. B.,.....	24,698	23,983	26,883	25,803	39,216
603	Thompson, J. R.,.....	24,645	23,755	24,140	.....	35,975
558	Turner, O.,.....	29,927	29,072	29,822	28,922	44,727
719	Van Der Karr, L. & Co.,.....	32,776	30,813	31,471	31,899	45,754
395	Vernam, J. & Co.,.....	26,008	25,336	25,924	25,124	37,703
93	Van Valkenburgh, D. A. & Co.,.....	.....	.....	28,914	37,698	43,245
287	Ward, M. C.,.....	27,550	.....	.....	.....	.....
1,121	Wright, J. T. & Co.,.....	28,255	27,399	28,149	27,249	42,834
1,199	Williams, H. E.,.....	22,493	21,091	32,726	22,748	31,417
338	Williams, L. L. & Co.,.....	22,862	21,985	22,928	21,652	31,023
902	Walker, W.,.....	26,620	25,946	26,553	25,721	38,300
1,110	Williams, G. & Co.,.....	29,965	24,002	29,863	28,787	42,930
223	Wilder, A.,.....	.....	.....	22,216	21,434	32,291

BIDS ON SECTION WORK—(CONTINUED.)

458

[ASSEMBLY

31	Angell, B. F.,.....	36,060	37,949	18,582	23,588	31,816
79	Burrell, T.,.....	39,983	41,428	20,199	25,744	36,132
361	Bridges, E. T. & Co.,.....	30,615	32,630	15,886	21,882	31,781
317	Butler, S. jr. & Co.,.....	33,415	34,396	17,648	21,267	29,250
171	Beebe, J. L. & Co.,.....	33,446	34,725	16,569	20,936	28,167
1,178	Ball, S. & Co.,.....	33,011	34,137	16,231	21,070	28,571
1,194	Brayton, T. R. & Co.,.....	37,127	39,796	.....	22,881	38,566
848	Burns, J.,.....	36,348	37,999	.....	.....	34,924
156	Buell, W.,.....	47,103	49,108	23,509	30,800	41,807
957	Barton, D. R. & Co.,.....	32,904	34,264	19,102	22,925	32,206
474	Britton, J. W. & Co.,.....	31,189	32,388	15,688	19,833	27,311
761	Breed, J. & Co.,.....	32,873	29,626	13,989	17,339	27,141
1,023	Barry, M. & Co.,.....	41,072	35,578	19,941	27,002	41,442
384	Buell, J.,.....	.....	43,529	.....	.....	33,852
362	Barnard, A.,.....	.....	.....	.....	21,982	31,240
783	Bloss, W. C. & Co.,.....	.....	.....	.....	20,875	27,445
646	Cady, H. & Co.,.....	34,896	35,868	17,362	21,973	31,785
215	Curtis, D. F.,.....	34,590	35,791	16,785	22,352	30,466
3	Charliff, O.,.....	35,606	35,717	16,888	26,646	29,947
1,026	Candee, D. & Co.,.....	34,774	33,677	16,070	22,447	29,964
1,189	Callender, G. F. & Co.,.....	37,057	37,273	18,503	23,240	33,147

49	Colton, J. C. & Co.,	38, 293	40, 002	19, 404	24, 944	33, 975
631	Cochrane, J. & Co.,	34, 873	36, 273	.....	22, 326	.....
868	Candee, W. & Co.,	30, 004	31, 312	14, 491	17, 964	29, 304
1, 024	Colt, H. V.,	36, 697	38, 100	18, 625	23, 618	31, 192
1, 232	Cassidy, J., .....	.....	30, 868	16, 848	21, 926	21, 926
332	Clark, O., .....	.....	.....	.....	.....	29, 500
1, 034	De Graw, C. J. & Co.,	28, 343	.....	.....	.....	.....
148	Daniels, W. P. & Co.,	36, 826	37, 536	17, 631	22, 565	32, 891
408	Ellicott, J. & Co.,	38, 401	39, 523	19, 264	24, 857	33, 944
736	Gray, J. J.,	32, 384	27, 243	12, 286	15, 315	24, 187
46	Grant, L. A. G. B.,	39, 983	41, 428	20, 199	25, 744	36, 132
280	Hinds, F. & Co.,	36, 070	37, 827	18, 672	23, 687	33, 500
535	Hard, G.,	34, 957	34, 843	16, 851	21, 515	32, 821
183	Harrington, M. A. & Co.,	33, 673	.....	.....	21, 281	.....
1, 195	Hooker, H. E.,	36, 674	38, 024	18, 660	23, 870	32, 231
659	Holden, S. C., .....	.....	.....	.....	22, 507	31, 938
326	Ingraham, J.,	35, 171	37, 379	18, 585	24, 679	31, 648
826	Johnson, W. & Co.,	33, 926	34, 189	15, 937	20, 916	27, 618
718	Kingslev, A. & Co.,	42, 300	44, 294	31, 249	27, 981	40, 494
801	Kerns, E. & T.,	37, 245	37, 487	.....	22, 837	34, 805
300	Loomis, H. & Co.,	37, 285	38, 871	18, 128	23, 422	.....
916	Lyman, T. A. E. & Co.,	42, 400	44, 294	21, 149	27, 035	38, 746
709	Lewis, W. L. & Co., .....	.....	37, 428	19, 024	22, 776	33, 583
34	Moore, C. H. & Co.,	39, 286	40, 386	19, 629	26, 194	36, 539
1, 210	Midler, S. J. & Co.,	27, 805	29, 187	14, 386	17, 024	25, 239
789	Moss, J. B.,	29, 104	30, 636	16, 158	18, 467	27, 773
235	Meach, H.,	38, 768	40, 614	18, 895	23, 947	35, 801

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDER.	No. 281.	No. 282.	No. 283.	No. 285.	No. 286.
	Engineers' Estimate,.....	\$35,367	\$34,995	\$16,992	\$22,872	\$29,263
162	Milliner, J. P. & Co.,.....	38,341	.....	.....	.....	.....
949	McDonald, A. P.,.....	34,207	35,647	17,166	21,747	.....
1,156	Mills, H. P. & Co.,.....	30,930	31,796	15,149	19,688	27,358
839	Marsh, W. N.,.....	31,726	32,787	15,694	20,361	29,659
900	Mills, T. G. & Co.,.....	32,536	33,856	16,485	18,617	28,287
753	McCartney, H. & Co.,.....	31,571	32,261	14,317	18,234	.....
1,158	McWilliams, E. & Co.,.....	.....	42,280	21,479	26,447	.....
1,068	Nichols, J. H.,.....	34,207	35,647	17,166	21,747	32,336
905	O'Brien, J.,.....	.....	.....	.....	.....	.....
754	Palmer, N.,.....	29,503	25,982	12,872	.....	.....
411	Peck, L. J.,.....	42,642	44,862	22,523	28,245	38,339
1,016	Peacock, J. & Co.,.....	.....	.....	16,579	.....	.....
86	Phillips, L. H.,.....	.....	.....	.....	22,761	35,448
1,128	Ross, M. L.,.....	38,871	41,622	20,029	25,483	.....
590	Ryan, J. & Co.,.....	35,555	35,454	17,667	22,445	32,079
733	Richardson, D. H.,.....	36,208	37,365	17,779	22,911	30,956
1,196	Sloane, W. M.,.....	44,009	47,170	22,687	28,366	41,548
1,117	Schultz, A. H.,.....	42,340	44,294	21,149	27,035	38,746
817	Smith, J. P. & Co.,.....	38,683	37,487	20,470	24,929	31,227
794	Sherman, J. W.,.....	37,834	35,673	19,447	24,627	63,381
1,047	Sherill, J. H.,.....	40,552	42,593	20,418	27,112	36,565

195	Spencer, U.,.....	32,302	33,518	15,997	20,208	27,977
768	Sherman, B.,.....	42,740	44,592	22,017	28,220	37,151
1,228	Storrs, H. E. & Co.,.....	34,893	36,759	17,612	22,632	33,956
1,169	Severance, H. M.,.....	.....	.....	.....	30,763	37,132
569	Thompson, C. B. & Co.,.....	35,601	36,854	17,653	23,708	32,171
603	Thomson, J. R.,.....	31,335	32,938	16,008	20,208	29,749
558	Turner, O.,.....	39,507	41,148	20,282	25,162	35,498
719	Van Der Karr, L. & Co.,.....	40,072	40,491	19,623	24,241	38,945
395	Vernam, J. & Co.,.....	34,589	36,365	17,655	22,208	30,556
93	Van Valkenburgh, D. A. & Co.,.....	33,566	35,004	16,501	21,152	31,201
542	Wagner, D. & Co.,.....	36,861	35,933	16,861	21,537	31,160
223	Wilder, A.,.....	30,091	32,361	15,782	19,338	27,962
1,121	Wright, J. T. & Co.,.....	37,834	39,713	19,447	24,627	33,781
1,199	Williams, H. E.,.....	26,664	28,348	13,078	15,337	24,872
338	Williams, L. L. & Co.,.....	27,949	28,252	13,095	.....	.....
902	Walker, W.,.....	34,478	36,203	17,588	22,149	30,580
1,110	Williams, G.,.....	36,919	38,979	18,585	13,401	34,481
784	Woodworth, S.,.....	.....	.....	.....	23,963	36,713

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 287.		No. 288.		Old Line.			
		\$35,955	\$12,904	No. 289.	No. 290.	No. 291.			
	Engineers' estimate,.....								
31	Angell, B. F.,.....	41,872	14,757	.....	.....	.....	.....	.....	.....
384	Buell, J.,.....	47,942	.....	.....	.....	.....	.....	.....	.....
79	Burrell, T.,.....	44,198	16,761	.....	.....	16,897	25,592	.....	19,462
362	Barnard, A.,.....	35,836	13,721	.....	.....	13,765	19,175	.....	15,986
317	Butler, O. jr. & Co.,.....	35,992	15,016	.....	.....	14,755	21,064	.....	15,755
171	Beebee, J. L. & Co.,.....	34,203	13,655	.....	.....	13,894	19,229	.....	15,558
1,178	Ball, S. & Co.,.....	35,031	.....	.....	.....	.....	.....	.....	.....
1,194	Brayton, T. R. & Co.,.....	47,359	.....	.....	.....	.....	.....	.....	.....
156	Buell, W.,.....	50,962	.....	.....	.....	.....	.....	.....	.....
954	Barton, D. R. & Co.,.....	37,331	19,256	.....	.....	18,630	27,174	.....	21,768
474	Britton, J. W. & Co.,.....	34,058	15,955	.....	.....	16,214	22,277	.....	18,672
783	Bloss, W. C. & Co.,.....	35,681	12,720	.....	.....	13,518	21,373	.....	15,712
761	Breed, J. & Co.,.....	32,417	.....	.....	.....	.....	.....	.....	14,371
1,023	Barry, M. & Co.,.....	46,359	14,282	.....	.....	14,860	21,725	.....	17,256
361	Bridges, E. T. & Co.,.....	39,929	20,694	.....	.....	.....	.....	.....	.....
848	Burns, J.,.....	40,813	14,576	.....	.....	.....	.....	.....	.....
215	Curtis, D. F.,.....	39,213	16,451	.....	.....	.....	.....	.....	.....
646	Cady, H. & Co.,.....	37,711	14,099	.....	.....	14,219	21,228	.....	.....
3	Charliff, O.,.....	37,882	19,895	.....	.....	.....	.....	.....	.....
868	Candee, W. & Co.,.....	33,423	14,477	.....	.....	14,645	20,625	.....	16,799
1,026	Candee, D. & Co.,.....	36,104	14,768	.....	.....	14,919	21,357	.....	17,158
			15,120	.....	.....	15,362	19,501	.....	17,501

1,189	Callender, G. F. & Co.,	41,611	14,989	16,661	22,641	19,129
49	Colton, J. C. & Co.,	41,069	16,455			
631	Cochrane, J. & Co.,	38,253				
1,024	Colt, H. V.,	41,636	15,620			
1,332	Clark, O.,	37,248				19,034
1,002	Corbett, M.,	43,399	17,107			
1,055	Clyde, M. A. & Co.,			17,026	24,973	19,693
321	Chamberlain, C. T. & Co.,			16,617	23,768	19,357
1,232	Cassidy, J.,				17,459	15,774
148	Daniels, W. P. & Co.,	39,259				
1,032	DeGraw, C. J. & Co.,			13,414	17,143	14,025
83	Douglass, A. W.,			17,714	23,633	20,165
408	Ellicott, J. & Co.,	41,903	16,213			
1,221	Everett, G. S. & Co.,	49,189		20,096	31,047	22,988
736	Gray, J. J.,	28,387	12,131	12,897	19,380	14,964
46	Grant, L. A. G. B.,	44,198	16,761	16,696	25,391	19,263
280	Hinds, F. & Co.,	41,144	16,011			
1,195	Hooker, H. E.,	42,081	15,586			
535	Hard, G.,	38,721				
659	Holden, S. C.,	39,865				
175	Hard, G. & Co.,		15,472	15,486	23,279	19,622
183	Harrington, M. A. & Co.,			14,140	20,401	15,936
326	Ingraham, J.,	41,574	14,965			
826	Johnson, W. & Co.,	36,892				
801	Kerns, E. & T.,	37,867				
715	Kingsley, A. & Co.,			16,492	25,644	19,565
481	King, J. B. & Co.,		14,185	14,302	22,525	15,968

BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 287.		No. 288.		Old Line.		
		\$35,955		\$12,904		No. 289.	No. 290.	No. 291.
	Engineers' estimate,.....							
31	Angell, B. F.,.....	41,872		14,757		.....	.....	.....
384	Buell, J.,.....	47,942		.....		.....	.....	.....
79	Burrell, T.,.....	44,198		16,761		.....	25,592	19,462
362	Barnard, A.,.....	35,836		13,721		.....	19,175	15,986
317	Butler, O. jr. & Co.,.....	35,992		15,016		.....	21,064	15,755
171	Beebee, J. L. & Co.,.....	34,203		13,655		.....	19,229	15,558
1,178	Ball, S. & Co.,.....	35,031		.....		.....	.....	.....
1,194	Brayton, T. R. & Co.,.....	47,359		.....		.....	.....	.....
156	Buell, W.,.....	50,962		19,256		.....	27,174	21,768
954	Barton, D. R. & Co.,.....	37,331		15,955		.....	22,277	18,672
474	Britton, J. W. & Co.,.....	34,058		12,720		.....	21,373	15,712
783	Bloss, W. C. & Co.,.....	35,681		.....		.....	.....	14,371
761	Breed, J. & Co.,.....	32,417		14,282		.....	21,725	17,256
1,023	Barry, M. & Co.,.....	46,359		20,694		.....	.....	.....
361	Bridges, E. T. & Co.,.....	39,929		14,576		.....	.....	.....
848	Burns, J.,.....	40,813		16,451		.....	.....	.....
215	Curtis, D. F.,.....	39,213		14,099		.....	21,228	.....
646	Cady, H. & Co.,.....	37,711		19,895		.....	.....	.....
3	Charliff, O.,.....	37,882		14,477		.....	20,625	16,799
868	Candee, W. & Co.,.....	33,423		14,768		.....	21,357	17,158
1,026	Candee, D. & Co.,.....	36,104		15,120		.....	19,501	17,501

BIDS ON SECTION WORK--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 287.	No. 288.			Old Line.		
			Engineers' estimate,			No. 289.		
		\$35,955	\$12,904			No. 290.		
						No. 291.		
300	Loomis, H. & Co.,	39,776	.....	.....	.....	.....	.....	.....
916	Lyman, T. A. E. & Co.,	48,608	.....	.....	.....	.....	.....	.....
912	Lyman, T. A. E. & Co.,	44,718	16,431	16,038	24,276	19,417	15,027	21,461
32	Lacey, C. T., .....	.....	.....	.....	.....	.....	.....	.....
34	Moore, C. H. & Co.,	45,241	17,271	18,552	27,157	.....	.....	.....
1,210	Middler, L. J. & Co.,	29,866	13,213	.....	.....	.....	.....	.....
789	Moss, J. B.,	33,732	14,089	14,420	20,818	.....	16,499	.....
162	Milliner, J. P. & Co.,	41,938	15,156	.....	.....	.....	.....	.....
839	Marsh, W. N.,	33,729	16,439	.....	.....	.....	16,876	.....
900	Mills, T. G. & Co.,	34,037	14,765	14,837	20,390	.....	.....	.....
1,156	Mills, H. P. & Co.,	33,071	13,539	.....	.....	.....	.....	.....
1,085	Mills, M. H. & Co.,	84,896	.....	.....	.....	.....	.....	.....
235	Meach, H.,	44,443	.....	.....	.....	.....	.....	.....
123	McCabe, J. & Co., .....	.....	.....	16,953	22,400	.....	.....	.....
949	McDonald, A. P., .....	.....	16,444	.....	.....	.....	.....	.....
1,068-70	Nichols, J. H.,	43,004	16,444	16,389	24,039	18,411	22,720	17,892
1,235	Niven, A. H., .....	.....	.....	19,794	24,768	.....	.....	.....
468	Oswald, J. & Co., .....	.....	.....	15,267	22,072	.....	.....	.....
1,016	Peacock, J. & Co.,	37,535	.....	.....	.....	.....	.....	.....
411	Peck, L. J.,	44,592	20,975	17,267	.....	.....	.....	.....
86	Phillips, L. H.,	41,324	17,850	16,314	25,045	.....	.....	18,994

759	Peterson, G. & Co.,	42,112	.....	.....	.....	20,035
435	Peck, L. J.,	.....	.....	.....	18,741	25,544
555	Peirce, S. & Co.,	.....	.....	.....	17,305	23,283
529	Pringle, B.,	.....	.....	13,454	.....	.....
590	Ryan, J. & Co.,	38,032	.....	15,727	16,420	25,055
734	Richardson, D. H.,	38,811	.....	14,056	15,558	24,224
357	Reed, E. S.,	.....	.....	.....	14,537	20,218
820	Riley, J. & Co.,	.....	.....	.....	.....	17,694
1,196	Sloane, W. M.,	52,854	.....	20,975	21,251	28,764
937-1117	Schultz, A. H.,	48,546	.....	16,431	16,038	24,276
817	Smith, J. P. & Co.,	42,467	.....	.....	.....	.....
794	Sherman, J. W.,	43,486	.....	16,108	16,306	25,011
1,047	Sherrill, J. H. & Co.,	43,140	.....	.....	.....	.....
195	Spencer, U.,	34,689	.....	13,159	.....	.....
768	Sherman, B.,	48,435	.....	17,734	.....	20,672
1,169.	Severance, H. M.,	57,755	.....	17,142	.....	.....
1,228	Storrs, H. E. & Co.,	40,860	.....	16,934	16,333	23,329
662	Soper, H. U.,	.....	.....	13,712	14,243	22,889
1,011	Sharp, D. & Co.,	.....	.....	.....	.....	21,508
569	Thomson, C. B. & Co.,	40,585	.....	.....	.....	.....
603	Thompson, J. R.,	37,905	.....	.....	.....	.....
558	Turner, O.,	45,303	.....	16,997	17,469	26,163
719	Van Der Karr, L. & Co.,	45,211	.....	18,220	19,215	25,135
395	Vernam, J. & Co.,	38,616	.....	14,434	15,325	22,191
93	Van Valkenburgh, A. & Co.,	36,656	.....	.....	.....	.....
816	Vernam, A.,	.....	.....	.....	13,348	19,816
1,121	Wright, J. T. & Co.,	43,486	.....	16,108	16,306	25,001

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 287.	No. 288.	Old LTB.		
				No. 289.	No. 290.	No. 291.
	Engineers' estimate,.....	\$35,955	\$12,904			
1,199	Williams, H. E.,.....	29,739	13,327	.....	.....	.....
902	Walker, W.,.....	39,192	14,263	.....	.....	.....
1,110	Williams, G. & Co.,.....	43,317	17,451	.....	.....	.....
784	Woodworth, S.,.....	42,018	17,084	18,439	25,350	28,750
223	Wilder, A.,.....	35,407	12,995	12,891	.....	16,515
542	Wagner, D. & Co.,.....	38,642	15,160	15,352	.....	.....

BIDS ON SECTION WORK—(CONTINUED.)

No. of parapetion.	NAMES OF BIDDERS.	INDEPENDENT LINES AT HOLLEY.				Orr's bridge section.
		No. 289.	No. 290.	No. 291.		
		.....	.....	\$3,151	
362	Barnard, A.....	8,348	57,532.	3,310	22,309	
317	Butler, O., jun. & Co.....	9,359	67,641	3,266	25,132	
121	Beebee, J. L. & Co.....	8,230	73,857	3,187	.....
1,178	Ball, S. & Co.....	8,009	63,906	3,807	.....
1,160	Bell, S. & Co.....	7,623	98,802	2,953	.....
783	Bloss, W. C. & Co.....	7,866	63,621	.....	.....
761	Breed, J. & Co.....	8,818	73,587	.....	.....
1,023	Barry, M. & Co.....	11,762	103,290	5,109	.....
361	Bridges, E. T. & Co.....	8,721	70,542	3,207	.....
848	Burns, J.....	.....	.....	3,977	.....
646	Cady, H. & Co.....	9,020	75,155	3,736	.....
1,055	Clyde, M. A. & Co.....	9,794	83,430	3,862	33,116	
3	Charliff, O.....	8,503	71,674	3,486	.....
868	Candee, W. & Co.....	8,853	56,890	3,309	.....
1,181	Callender, G. F. & Co.....	9,141	55,370	3,714	.....
49	Colton, J. C. & Co.....	10,063	69,951	3,953	.....
832	Clark, O.....	7,968	71,133	3,004	28,854	
321	Chamberlain, C. T. & Co.....	9,843	78,653	3,778	.....
681	Cochrane, J. & Co.....	.....	75,767	.....	.....
1,084	De Graw, C. J. & Co.....	8,126	49,808	3,124	.....

BIDS ON SECTION WORK--(CONTINUED.)

No. of Proposition.	NAMES OF BIDDERS.	INDEPENDENT LINE AT HOLLEY.			Orr's bridge section
		No. 289.	No. 290.	No. 291.	
	Engineers' estimate,.....			\$3,151	
83	Douglass, A. W. & Co.....	10,414	87,472	3,850	29,785
408	Ellicott, J. & Co.....	9,587	84,075	3,761	.....
1,221	Everett, S. & Co.....	12,077	142,092	5,135	29,526
736	Gray, J. J.....	7,494	62,867	2,886	.....
46	Grant, L. A. G. B.,.....	9,926	84,533	3,877	.....
175	Hard, G. & Co.....	9,337	68,858	3,900	.....
188	Harrington, M. A. & Co.....	8,434	63,776	3,164	.....
693	Hart, J. N. & Co.....	11,020	122,199	4,923	.....
1,195	Hooker H. E.....	10,293	73,486	4,181	.....
499	Hayes, J.....	.....	.....	.....	27,822
535	Hard, G.....	.....	.....	.....	25,878
326	Ingraham, J.....	9,491	69,275.	3,741	.....
826	Johnson, W. & Co.....	8,619	70,980	3,339	.....
715 & 717	Kingsley, A. & Co.....	10,211	79,582	4,209	25,825
481	King, J. B. & Co.....	13,933	71,415	3,317	26,592
916	Lyman, T. A. E.....	10,093	78,019	3,921	.....
34	Moore, C. H. & Co.....	10,821	84,502	4,311	29,348
162	Milliner, J. P. & Co.....	9,463	76,338	3,546	.....
235	Meach, H.,.....	10,119	90,026	3,729	.....
125	McCabe, J.,.....	8,967	71,049	3,809	.....

1,209	McCartney, H. & Co.	7,158	54,576	2,908	.....
1,156	Mills, H. P. & Co.	8,395	70,696	3,241	.....
900	Mills, T. G. & Co.	9,336	61,367	4,455	.....
1,070	Nichols, J. H.	9,489	53,477	3,807	23,019
1,235	Niven, A. H.	10,950	70,067	4,302	.....
529	Pringle, B.	7,127	70,532	2,851	.....
86	Phillips, L. H.	9,495	86,242	3,697	28,040
411	Peck, L. J.	11,284	118,948	4,439	34,266
759	Peterson, G. & Co.	9,858	70,530	3,867	.....
734	Richardson, D. H.	9,489	72,943	3,719	25,260
817	Smith, J. P. & Co.	10,019	83,506	3,923	.....
1,117	Schultz, A. H.	10,093	70,943	3,921	.....
937	Schultz, A. H.	.....	.....	4,177	26,218
794	Sherman, J. W.	9,837	83,628	3,975	.....
1,169	Severance H. M.	10,583	76,715	4,066	.....
1,228	Storrs, H. E. & Co.	10,060	76,277	4,337	.....
195	Spencer, U.	8,197	77,755	3,186	.....
768	Sherman, B.	10,853	84,698	.....	.....
558	Turner, O.	10,532	84,785	4,208	.....
603	Thompson, J. R.	.....	.....	.....	24,161
206	Thompson, J. R.	.....	60,756	.....	.....
719	Van Der Kar, L. & Co.	10,818	64,891	4,322	.....
395	Vernam, J. & Co.	8,820	72,157	3,364	27,111
816	Vernam, A.	.....	.....	.....	23,399
1,110	Williams, G. & Co.	10,702	76,707	4,462	.....
542	Wagner, D. & Co.	9,148	.....	.....	.....
223	Wilder, A.	.....	63,718	.....	.....

.....	7,158	54,576	2,908	.....
.....	8,395	70,696	3,241	.....
.....	9,336	61,367	4,455	.....
.....	9,489	53,477	3,807	23,019
.....	10,950	70,067	4,302	.....
.....	7,127	70,532	2,851	.....
.....	9,495	86,242	3,697	28,040
.....	11,284	118,948	4,439	34,266
.....	9,858	70,530	3,867	.....
.....	9,489	72,943	3,719	25,260
.....	10,019	83,506	3,923	.....
.....	10,093	70,943	3,921	.....
.....	.....	.....	4,177	26,218
.....	9,837	83,623	3,975	.....
.....	10,583	76,715	4,066	.....
.....	10,060	76,277	4,337	.....
.....	8,197	77,755	3,186	.....
.....	10,853	84,698	.....	.....
.....	10,532	84,785	4,208	.....
.....	.....	.....	.....	24,161
.....	.....	60,756	.....	.....
.....	10,818	64,891	4,322	.....
.....	8,820	72,157	3,364	27,111
.....	.....	.....	.....	23,399
.....	10,702	76,707	4,462	.....
.....	9,148	.....	.....	.....
.....	.....	63,718	.....	.....

175	Hard, G. & Co.,	18,568	17,272	19,887	18,129	15,302
188	Harrington, M. A. & Co.,	18,400	16,410	.....	.....	16,427
280	Hinds, F. & Co.,	19,499	17,504	20,920	19,076	17,660
693	Hart, J. M. & Co.,	20,361	.....	.....	.....	.....
1,195	Hooker, H. E.,	19,721	17,675	20,747	18,032	17,267
1,115	Harrington, M. A., .....	.....	.....	18,830	16,907	.....
1,006	Hawley, A., .....	.....	.....	.....	17,144	.....
326	Ingraham, J.,	18,301	16,399	19,197	16,733	16,379
481	King, J. B. & Co.,	17,807	15,832	18,999	17,561	16,019
715	Kingsley, A. & Co.,	20,336	19,369	24,177	22,141	15,472
780	Learned, C. G. & Co., .....	.....	.....	.....	.....	23,696
912-916	Lyman, T. A. E. & Co.,	20,192	19,225	24,033	21,997	15,955
300	Loomis, H. & Co., .....	.....	.....	.....	12,342	23,129
34	Moore, C. H. & Co., ..	20,019	17,858	21,625	19,609	.....
235	Meach, H.,	21,289	18,878	21,717	18,725	18,208
1,156	Mills, H. P. & Co.,	16,313	14,555	17,172	14,884	18,373
900	Mills, T. G. & Co.,	18,285	16,277	19,290	16,650	14,221
592	Morgan, D. S.,	17,937	16,372	19,356	16,716	15,885
948	McDonald, A. P.,	19,841	17,717	20,865	18,049	15,951
1,066	Nichols, J. H.,	20,519	18,168	21,607	18,615	17,233
529	Pringle, B.,	16,969	13,518	.....	.....	17,748
411	Peck, L. J.,	22,476	20,042	26,353	22,481	.....
357	Reed, E. S.,	17,947	15,914	18,907	16,267	20,329
390	Ryan, J. & Co.,	19,227	17,201	21,664	19,615	15,502
1,196	Sloane, W. M.,	25,183	22,456	26,463	22,943	17,948
662	Soper, H. U.,	18,588	16,893	18,806	16,442	21,923
937	Schultz, A. H.,	20,192	19,225	24,033	21,997	15,056
						23,129

BIDS ON SECTION WORK--(CONTINUED.)

470

[Assembly

No. of propositions.	NAMES OF BIDDERS.	No. 292.	No. 293.	No. 294.	No. 295.	No. 296.
	Engineers' estimate,.....	\$18,226	\$15,889	\$18,319	\$15,881	\$14,438
361	Bridges, E. T. & Co.,.....	19,927	.....	.....	.....	.....
79	Burrell, T.,.....	20,267	18,246	21,164	18,569	17,804
317	Butler, O. J. & Co.,.....	18,000	14,770	18,857	16,781	16,019
171	Beebee, J. L. & Co.,.....	18,298	16,146	19,658	17,908	16,666
1,178	Ball, S. & Co.,.....	18,330	16,257	18,503	.....	.....
798	Buell, W.,.....	23,032	20,305	24,312	20,792	19,747
954	Barton, D. R. & Co.,.....	19,782	17,627	20,758	17,942	17,326
474	Britton, J. W. & Co.,.....	17,285	15,383	18,181	15,151	14,488
1,023	Barry, M. & Co.,.....	12,746	24,394	29,463	25,063	23,788
402	Bliss, R. & Co.,.....	18,531	16,911	23,387	21,551	16,658
646	Cady, H. & Co.,.....	18,531	16,539	19,541	16,901	16,136
1,055	Clyde, M. A. & Co.,.....	21,424	19,844	.....	.....	.....
3	Charliff, O.,.....	18,394	16,893	19,363	16,157	14,928
868	Candee, W. & Co.,.....	18,011	16,667	19,640	17,000	16,235
1,026	Candee, D. & Co.,.....	17,473	15,819	18,250	16,050	15,413
49	Colton, J. C. & Co.,.....	20,154	17,984	23,147	20,721	18,603
364	Clark, S. & Co.,.....	18,207	16,165	19,167	15,613	14,848
1,034	De Graw, C. J. & Co.,.....	15,860	.....	.....	.....	.....
94	Douglass, A. W. & Co.,.....	.....	.....	20,763	.....	.....
408	Ellicott, J. & Co.,.....	18,966	17,073	19,817	17,853	16,689
46	Grant, L. A. G. B.,.....	20,267	18,246	21,209	18,569	17,804

175	Hard, G. & Co.,	18,568	17,272	19,887	19,129	15,302
188	Harrington, M. A. & Co.,	18,400	16,410	.....	.....	16,427
280	Hinds, F. & Co.,	19,499	17,504	20,920	19,076	17,660
693	Hart, J. M. & Co.,	20,361	.....	.....	.....	.....
1,195	Hooker, H. E.,	19,731	17,675	20,747	18,032	17,267
1,115	Harrington, M. A.,	.....	.....	18,830	16,907	.....
1,006	Hawley, A.,	.....	.....	.....	17,144	.....
326	Ingraham, J.,	18,301	16,399	.....	16,733	16,379
481	King, J. B. & Co.,	17,807	15,832	19,197	17,561	16,019
715	Kingsley, A. & Co.,	20,336	19,369	18,999	23,141	15,472
780	Learned, O. G. & Co.,	.....	.....	24,177	.....	23,696
913-916	Lyman, T. A. E. & Co.,	20,192	19,225	.....	.....	15,955
300	Loomis, H. & Co.,	.....	.....	24,033	21,997	23,139
24	Moore, C. H. & Co.,	20,019	17,858	.....	12,342	.....
235	Meach, H.,	21,239	18,878	21,625	19,609	18,208
1,156	Mills, H. P. & Co.,	16,313	14,555	21,717	18,725	18,373
900	Mills, T. G. & Co.,	18,285	16,277	17,172	14,884	14,221
592	Morgan D. S.,	17,937	16,372	19,290	16,650	15,885
948	A. P.,	19,841	17,717	19,356	15,716	15,951
1,066	Nichols, J. H.,	20,519	18,168	20,865	18,049	17,233
529	Pringle, B.,	16,969	13,518	21,607	18,615	17,748
411	Peck, L. J.,	22,476	20,042	.....	.....	.....
857	Reed, E. S.,	17,947	15,914	26,353	23,481	20,839
390	Ryan, J. & Co.,	19,227	17,201	18,907	16,267	15,502
1,196	Sloane, W. M.,	25,183	22,456	21,664	19,615	17,948
662	Soper, H. U.,	18,538	16,393	26,463	23,943	21,923
937	Schultz, A. H.,	20,192	19,225	18,806	16,442	15,056
				24,033	21,997	23,139

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 292.	No. 293.	No. 294.	No. 295.	No. 296.
		\$18,226	\$15,889	\$18,319	\$15,881	\$14,438
	Engineers' estimate,.....					
794	Sherman, J. W.,.....	19,693	17,660	20,608	17,968	17,203
768	Sherman, B.,.....	21,639	19,334	22,700	19,708	18,841
1,169	Severance, H. M.,.....	22,222	19,790	23,356	20,488	19,270
1,228	Storrs, H. E. & Co.,.....	20,747	18,615	21,753	18,937	18,121
195	Spencer, U.,.....	17,954	15,916	18,923	15,717	15,003
558	Turner, O.,.....	20,495	18,478	21,445	17,806	18,041
719	Van Der Karr, L. & Co.,.....	21,423	19,412	22,401	19,761	17,996
395	Vernam, J. & Co.,.....	18,341	16,367	19,265	18,728	15,666
293	Washburn, J. C.,.....	23,609	20,537	26,123	21,471	20,553
1,121	Wright, J. T. & Co.,.....	19,693	17,660	20,608	17,968	17,203
784	Woodworth, S.,.....	21,038	18,754	22,098	19,358	18,393
1,110	Williams, G. & Co.,.....	21,190	18,864	22,269	19,843	18,925

BIDS ON SECTION WORK—(CONTINUED.)

No. of propo- sition.	NAMES OF BIDDERS.	No. 297.	No. 298.	No. 299.	No. 300.	No. 301.
	Engineers' estimate,	\$13,656	\$16,648	\$13,866	\$14,101	\$13,537
	.....	16,489	16,997	16,025	.....	.....
	.....	16,999	18,480	17,184	17,529	19,014
	& Co.,	15,116	14,741	14,709	14,960	14,588
	& Co.,	15,339	16,398	15,670	15,511	15,247
	.....	18,752	19,169	19,012	19,472	21,427
	& Co.,	16,295	17,718	16,518	16,961	16,518
	.....	22,448	22,840	21,407	21,913	22,898
	& Co.,	13,830	15,005	13,994	14,293	13,989
	.....	15,825	17,208	16,043	15,911	15,565
	.....	14,729	16,197	14,811	14,633	14,328
	Co.,	15,336	16,667	15,508	15,830	15,504
	Co.,	17,690	18,860	17,919	18,833	17,918
	.....	14,083	15,446	14,278	14,623	14,277
	Co.,	15,470	16,832	15,710	16,010	15,661
	J. & Co., .....	.....	.....	.....	.....	15,379
	Co.,	15,950	17,406	16,107	16,429	16,108
	J. B.,	16,999	18,430	17,184	17,522	17,185
	.....	.....	.....	.....	16,146	16,341
	.....	16,610	18,109	15,837	16,317	15,786
280	Hinds, F. & Co.,	17,680	18,687	17,459	15,835	.....
243	Hughes, J. B.,	15,801	16,820	15,435	15,933	.....

BIDS ON SECTION WORK—(CONTINUED.)

468

[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	INDEPENDENT BIDS AT HILLET.			Orr's bridge section
		No. 290.	No. 291.		
	Engineers' estimate,.....		\$3,151		
83	Douglass, A. W. & Co.....	87,472	3,850		29,785
408	Ellicott, J. & Co.....	84,075	3,761		.....
1,221	Everett, S. & Co.....	142,092	5,135		29,526
736	Gray, J. J.....	62,867	2,886		.....
46	Grant, L. A. G. B.,.....	84,533	3,877		.....
175	Hard, G. & Co.....	68,858	3,900		.....
188	Harrington, M. A. & Co.....	63,776	3,164		.....
693	Hart, J. N. & Co.....	122,199	4,923		.....
1,195	Hooker H. E.....	73,486	4,181		.....
499	Hayes, J.....	.....	.....		27,822
535	Hard, G.....	.....	.....		25,878
326	Ingraham, J.....	69,275	3,741		.....
826	Johnson, W. & Co.....	70,980	3,339		.....
715 & 717	Kingsley, A. & Co.....	79,582	4,209		25,825
481	King, J. B. & Co.....	71,415	3,317		26,592
916	Lyman, T. A. E.....	78,919	3,921		.....
34	Moore, C. H. & Co.....	84,502	4,311		29,348
162	Milliner, J. P. & Co.....	76,338	3,546		.....
235	Meach, H.,.....	90,026	3,729		.....
125	McCabe, J.,.....	71,049	3,809		.....

1,209	McCartney, H. & Co.....	7,158	54,576	2,908	.....
1,156	Mills, H. P. & Co.....	8,395	70,696	3,241	.....
1,900	Mills, T. G. & Co.....	9,336	61,367	4,455	.....
1,070	Nichols, J. H.....	9,489	53,477	3,807	23,019
1,235	Niven, A. H.....	10,950	70,067	4,302	.....
1,529	Pringle, B.....	7,127	70,532	2,851	.....
86	Phillips, L. H.....	9,495	86,242	3,697	28,040
411	Peck, L. J.....	11,284	118,948	4,439	34,266
759	Peterson, G. & Co.....	9,858	70,530	3,867	.....
734	Richardson, D. H.....	9,489	72,943	3,719	25,260
817	Smith, J. P. & Co.....	10,019	83,506	3,923	.....
1,117	Schultz, A. H.....	10,093	70,943	3,921	.....
937	Schultz, A. H.....	.....	.....	4,177	26,218
794	Sherman, J. W.....	9,837	83,628	3,975	.....
1,169	Severance H. M.....	10,583	76,715	4,066	.....
1,228	Storrs, H. E. & Co.....	10,060	76,277	4,337	.....
1,195	Spencer, U.....	8,197	77,755	3,186	.....
768	Sherman, B.....	10,853	84,698	.....	.....
558	Turner, O.....	10,532	84,785	4,208	.....
603	Thompson, J. R.....	.....	.....	.....	24,161
206	Thompson, J. R.....	.....	60,756	.....	.....
719	Van Der Kar, L. & Co.....	10,818	64,891	4,322	.....
395	Vernam, J. & Co.....	8,820	72,157	3,364	27,111
816	Vernam, A.....	.....	.....	.....	23,399
1,110	Williams, G. & Co.....	10,702	76,707	4,462	.....
542	Wagner, D. & Co.....	9,148	.....	.....	.....
223	Wilder, A.....	.....	63,718	.....	.....

BIDS ON SECTION WORK--(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 292.	No. 293.	No. 294.	No. 295.	No. 296.
	Engineers' estimate,.....	\$18,226	\$15,889	\$18,319	\$15,881	\$14,438
361	Bridges, E. T. & Co.,.....	19,927	.....	.....	.....	.....
79	Burrell, T.,.....	20,267	18,246	21,164	18,569	17,804
317	Butler, O. J. & Co.,.....	18,000	14,770	18,857	16,781	16,019
171	Beebee, J. L. & Co.,.....	18,298	16,146	19,658	17,908	16,666
1,178	Ball, S. & Co.,.....	18,330	16,257	18,503	.....	.....
798	Buell, W.,.....	23,032	20,305	24,312	20,792	19,747
954	Barton, D. R. & Co.,.....	19,782	17,627	20,758	17,942	17,326
474	Britton, J. W. & Co.,.....	17,285	15,383	18,181	15,151	14,488
1,023	Barry, M. & Co.,.....	12,746	24,394	29,463	25,063	23,788
402	Bliss, R. & Co.,.....	18,531	16,911	23,387	21,551	16,658
646	Cady, H. & Co.,.....	18,531	16,539	19,541	16,901	16,136
1,055	Clyde, M. A. & Co.,.....	21,424	19,844	.....	.....	.....
3	Charliff, O.,.....	18,394	16,393	19,363	16,157	14,928
868	Candee, W. & Co.,.....	18,011	16,667	19,640	17,000	16,235
1,026	Candee, D. & Co.,.....	17,473	15,819	18,250	16,050	15,413
49	Colton, J. C. & Co.,.....	20,154	17,984	23,147	20,721	18,603
364	Clark, S. & Co.,.....	18,207	16,165	19,167	15,613	14,848
1,034	De Graw, C. J. & Co.,.....	15,860	.....	.....	.....	.....
94	Douglass, A. W. & Co.,.....	.....	.....	20,763	.....	.....
408	Ellicott, J. & Co.,.....	18,966	17,073	19,817	17,853	16,689
46	Grant, L. A. G. B.,.....	20,267	18,246	21,209	18,569	17,804

175	Hard, G. & Co.,	18,568	17,272	19,887	18,129	15,302
188	Harrington, M. A. & Co.,	18,400	16,410	.....	.....	16,427
280	Hinds, F. & Co.,	19,499	17,504	20,920	19,076	17,660
693	Hart, J. M. & Co.,	20,361	.....	.....	.....	.....
1,195	Hooker, H. E.,	19,721	17,675	20,747	18,032	17,267
1,115	Harrington, M. A.,	.....	.....	18,830	16,907	.....
1,006	Hawley, A.,	.....	.....	.....	17,144	.....
326	Ingraham, J.,	18,301	16,399	19,197	16,723	16,379
481	King, J. B. & Co.,	17,807	15,832	18,999	17,561	16,019
715	Kingsley, A. & Co.,	20,336	19,369	24,177	22,141	15,472
780	Learned, C. G. & Co.,	.....	.....	.....	.....	23,696
912-916	Lyman, T. A. E. & Co.,	20,192	19,225	24,033	21,997	15,955
300	Loomis, H. & Co.,	.....	.....	.....	12,342	23,129
34	Moore, C. H. & Co.,	20,019	17,858	21,625	19,609	.....
235	Meach, H.,	21,289	18,878	21,717	18,725	18,208
1,156	Mills, H. P. & Co.,	16,313	14,555	17,172	14,884	18,373
900	Mills, T. G. & Co.,	18,285	16,277	19,290	16,650	14,221
592	Morgan, D. S.,	17,937	16,372	19,356	16,716	15,885
948	McDonald, A. P.,	19,841	17,717	20,865	18,049	15,951
1,066	Nichols, J. H.,	20,519	18,168	21,607	18,615	17,233
529	Pringle, B.,	16,969	13,518	.....	.....	17,748
411	Peck, L. J.,	22,476	20,042	26,353	22,481	.....
357	Reed, E. S.,	17,947	15,914	18,907	16,267	20,329
390	Ryan, J. & Co.,	19,227	17,201	21,664	19,615	15,502
1,196	Sloane, W. M.,	25,183	22,456	26,463	22,943	17,948
662	Soper, H. U.,	18,588	16,893	18,806	16,442	21,923
937	Schultz, A. H.,	20,193	19,225	24,033	21,997	15,056
						28,189

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 292.	No. 293.	No. 294.	No. 295.	No. 296.
		\$18,226	\$15,389	\$18,319	\$15,881	\$14,438
794	Sherman, J. W.,.....	19,693	17,660	20,608	17,968	17,203
768	Sherman, B.,.....	21,689	19,334	22,700	19,708	18,841
1,169	Severance, H. M.,.....	22,222	19,790	23,356	20,488	19,270
1,228	Storrs, H. E. & Co.,.....	20,747	18,615	21,753	18,937	18,121
195	Spencer, U.,.....	17,954	15,916	18,923	15,717	15,003
558	Turner, O.,.....	20,495	18,478	21,445	17,806	18,041
719	Van Der Karr, L. & Co.,.....	21,423	19,412	22,401	19,761	17,996
395	Vernam, J. & Co.,.....	18,341	16,367	19,265	18,728	15,666
293	Washburn, J. C.,.....	23,609	20,537	26,123	21,471	20,553
1,121	Wright, J. T. & Co.,.....	19,693	17,660	20,608	17,968	17,203
784	Woodworth, S.,.....	21,038	18,754	22,098	19,358	18,393
1,110	Williams, G. & Co.,...	21,190	18,864	22,269	19,843	18,925

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 297.	No. 298.	No. 299.	No. 300.	No. 301.
	Engineers' estimate,	\$13,656	\$16,648	\$13,866	\$14,101	\$13,537
402	Bliss, R. & Co.,	16,489	16,997	16,025	.....	.....
79	Burrell, T.,	16,999	18,480	17,184	17,529	19,014
317	Butler, O. jr. & Co.,	15,116	14,741	14,709	14,960	14,588
171	Beebee, J. L. & Co.,	15,339	16,398	15,670	15,511	15,247
156	Buell, W.,	18,752	19,169	19,012	19,472	21,427
954	Barton, D. R. & Co.,	16,295	17,718	16,518	16,961	16,518
1,023	Barry, M. & Co.,	22,448	22,840	21,407	21,913	22,898
474	Britton, J. W. & Co.,	13,830	15,005	13,994	14,293	13,989
648	& Co.,	15,825	17,208	16,043	15,911	15,565
3	.....	14,729	16,197	14,811	14,633	14,328
1,026	& Co.,	15,336	16,667	15,508	15,830	15,504
49	C. & Co.,	17,600	18,860	17,919	18,333	17,918
364	& Co.,	14,083	15,446	14,278	14,623	14,277
868	F. & Co.,	15,470	16,832	15,710	16,010	15,661
616	S. D. & Co., .....	.....	.....	.....	.....	15,379
408	& Co.,	15,950	17,406	16,107	16,429	16,108
46	A. G. B.,	16,999	18,430	17,184	17,522	17,185
1,213	H., .....	.....	.....	.....	16,146	16,341
175	Hard, G. & Co.,	16,610	18,109	15,837	16,317	15,786
280	Hinds, F. & Co.,	17,680	18,687	17,459	15,835	.....
243	Hughes, J. B.,	15,801	16,820	15,435	15,933	.....

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 297.		No. 298.	
		Engineers' estimate,.....		\$16,648	
1,006	Hawley, A.,.....	15,619	17,016	16,625	16,993
1,196	Hooker, H. E.,.....	16,507	17,904	15,638	16,001
188	Harrington, M. A. & Co.,.....	.....	.....	15,315	15,660
326	Ingraham, J.,.....	15,305	16,566	13,445	13,721
481	King, J. B. & Co.,.....	14,915	16,829	17,102	17,493
715	Kingale, A. & Co.,.....	22,396	24,413	20,523	20,029
912	Lyman, T. A. E. & Co.,.....	21,829	23,846	15,409	15,777
780	Learned, C. G. & Co.,.....	16,071	.....	17,302	17,693
34	Moore, C. H. & Co.,.....	17,705	19,340	21,163	21,623
948	McDonald, A. P. & Co.,.....	16,417	17,871	14,719	14,468
592	Morgan, D. S.,.....	15,081	.....	.....	.....
900	Mills, T. G. & Co.,.....	15,095	16,284	16,633	16,978
1,156	Mills, H. P. & Co.,.....	.....	.....	.....	.....
1,066	Nichols, J. H.,.....	16,881	18,426	.....	.....
411	Peck, L. J.,.....	19,409	21,916	.....	.....
357	Reed, E. S.,.....	15,201	16,254	.....	.....
590	Ryan, J. & Co.,.....	17,086	18,505	.....	.....
1,196	Sloane, W. M.,.....	20,903	22,720	.....	.....
662	Soper, H. U. & Co.,.....	14,660	16,750	.....	.....
937.	Schultz, A. H.,.....	21,829	23,846	.....	.....
794	Sherman, J. W.,.....	16,463	18,000	.....	.....

195	Spencer, U.,.....	14,284	15,560	14,471	14,793	14,468
1,169	Severance, H. M.,	18,363	20,067	18,586	19,000	18,583
768	Sherman, B.,.....	17,989	19,638	18,195	18,586	18,202
238	Stage, J. N.,.....	.....	.....	14,098	.....	.....
1,228	Storrs, H. E. & Co.,	17,215	18,838	17,513	17,881	17,503
558	Turner, Otis,.....	17,231	18,677	17,471	16,816	17,472
719	Van Der Karr, L. & Co.,	18,221	19,514	18,426	18,771	18,422
395	Vernam, J. & Co.,	14,952	16,223	15,134	15,456	15,610
293	Washburn, J. C.,.....	19,697	21,029	19,869	20,283	19,861
1,121	Wright, J. T. & Co.,	16,463	18,000	16,633	16,978	16,634
1,110	Williams, G. & Co.,	18,007	19,642	18,241	18,655	18,251
784	Woodworth, S.,.....	17,628	19,190	17,703	17,324	.....
1,078	Whitney, J.,.....	.....	.....	16,929	.....	.....

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 302.		No. 303.		No. 304.		No. 305.		No. 307.	
		\$16,849		\$15,554		\$14,892		\$18,629		\$13,579	
	Engineers' estimate, ..	\$16,849		\$15,554		\$14,892		\$18,629		\$13,579	
79	Burrell, T.....	19,014		18,039		17,514		21,588		15,467	
317	Butler, O. jun. & Co.....	16,934		15,945		15,272		17,793		.....
171	Beebee, J. L. & Co.....	15,942		15,655		14,824		.....		12,521	
156	Buell, W.....	21,427		23,152		19,452		24,585		15,622	
1,023	Barry, M. & Co.....	25,909		24,245		23,123		25,323		14,536	
954-6	Barton, D. R. & Co.....	18,561		17,412		16,745		19,160		18,444	
474	Britton, J. W. & Co.....	15,574		14,723		13,993		17,167		12,304	
352	Brown, G.....	.....		.....		.....		20,710		.....
646	Cady, H. & Co.....	17,393		15,893		15,422		19,440		13,878	
616	Copeland, S. D.....	17,173		17,217		.....		.....		13,494	
3	Charliff, O.....	16,515		15,603		15,094		18,770		13,231	
1,026	Candee, D. & Co.....	17,222		16,318		.....		.....		13,478	
49	Colton, J. C. & Co.....	20,118		17,877		17,317		21,612		15,237	
868	Candee, W. & Co.....	17,495		16,510		15,995		20,060		14,045	
364	Clark, S. & Co.....	16,108		15,391		14,820		18,531		12,741	
1,055	Clyde, M. A. & Co.....	.....		.....		16,692		20,777		14,441	
139	Collins, A.....	.....		.....		14,495		22,652		16,045	
388	Crydeler, A.....	.....		.....		.....		21,733		.....
1,232	Cassidy, J.....	.....		.....		.....		15,478		.....
322	Clark, O.....	.....		.....		.....		18,097		.....
83	Douglass, A. W.....	.....		.....		.....		19,595		.....
609	Daniels, C. A.....	.....		.....		.....		.....		12,374	

611	Daniels, D. H.	17,890	16,935	16,540	22,003	12,331
408	Ellicott, J. & Co	19,023	18,057	17,589	22,195	14,935
46	Grant, L. A. G. B.					15,467
1,213	Goodrich, H.					13,274
1,175	Hard, G. & Co.	17,664	17,742	16,092	19,047	13,627
1,214-15	Harrington, M. A.	17,773	16,252	14,754	19,411	14,609
1,195	Hooker, H. E.	18,227	17,250	16,727	22,512	14,257
1,006	Hawley A.	17,642	16,670	16,164	20,747	15,587
391	Hopkins, H. & Co.			17,377	22,404	
280	Hinds, F. & Co.			16,666	21,874	
240-243	Hughes, J. B.			15,967	21,063	
693	Hart, J. N.					13,973
499	Hayes, J.					17,125
326	Ingraham, J.	17,841	16,863			14,543
73	Jackson, J. jun.	20,513			20,777	14,326
715	Kingsley, A & Co.					13,926
481	King, J. B. & Co.			14,891	22,299	16,055
912	Lyman, T. A. E. & Co.	19,946			18,665	
300	Loomis, H. & Co.				21,669	15,488
34	Moore, C. H. & Co.	19,935	19,765			11,067
948	McDonald, A. P.	18,577	17,009	17,137	20,461	15,066
1,085	Mills, M. H. & Co.	16,249	15,357	15,019	21,009	14,596
900	Mills, T. G. & Co.	17,130	16,140	15,520	19,015	
1,210	Midler, L. J. & Co.		14,528	14,367	18,668	13,021
235	Meach, H.				18,580	
298	Meigs, H. & Co.				22,652	16,045
1,066	Nichols, J. H.	18,574	17,003	16,952		13,347
					20,800	14,528

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 302.					No. 303.					No. 304.					No. 305.					No. 307.				
		\$16,849					\$15,554					\$14,892					\$18,629					\$13,579				
411	Peck, L. J.	19,625					18,597					16,639					20,759					15,789				
820	Pailey, J.																14,593									
529	Pringle, B.																					11,989				
590	Ryan, J. & Co.	19,367					17,737					16,129					19,633					14,291				
357	Reed, E. S.																20,372					13,681				
1,196	Sloane, W. M.	23,603					22,303					21,603					27,879					18,534				
662	Soper, H. U.	17,400					15,994					15,878					19,251									
937	Schultz, A. H.	19,946															21,669									
794	Sherman, J. W.	18,478					17,518					17,088					22,439					15,488				
195	Spencer, U.	16,173					15,257					14,255					17,607					15,353				
1,169	Severance, H. M.	20,788					19,624					20,062					24,322					17,419				
768	Sherman, B.	20,278					19,182					18,644					24,073					16,563				
1,228	Storrs, H. E. & Co.	19,471					18,437					17,915					22,900					15,921				
238	Stage, J. N.											14,916					18,851									
558	Turner, Otis.	19,304					18,332					17,826					22,513					15,919				
618	Tousley, O.																									
719	Van Der Karr, L. & Co.	20,250					19,269					18,706					22,670					13,212				
895	Vernam, J. & Co.	17,432					16,448					16,440					19,200					13,586				
1,121	Wright, J. T. & Co.	18,478					17,518					17,088					22,439					14,923				
1,110	Williams, G. & Co.	20,437					19,267										23,715					16,329				
293	Washburn, J. C.	22,047					20,859					20,065					22,577					18,119				

BIDS ON SECTION WORK--(CONTINUED.)

No. of pro- position.	NAMES OF BIDDERS.	No. 308.				No. 309.				No. 310.				No. 311.			
		Engineers' estimate,.....				\$16,689				\$15,167				\$11,310			
311	Daniels, D. H.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11,237	.....	.....	.....
148	Daniels, W. P.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26,838	.....
408	Ellicott, J. & Co.....	.....	.....	.....	.....	18,511	.....	.....	.....	16,622	.....	.....	.....	12,532	.....	27,026	.....
1,222	Everett, S. & Co.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29,929	.....
46	Grant, L. A. G. B.....	.....	.....	.....	.....	18,867	.....	.....	.....	17,217	.....	.....	.....	13,446	.....	30,661	.....
1,213	Goodrich, H.....	.....	.....	.....	.....	17,799	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
295	Hayes, J.....	.....	.....	.....	.....	18,184	.....	.....	.....	15,886	.....	.....	.....	11,879	.....	24,134	.....
243	Hughes, J. B.....	.....	.....	.....	.....	18,149	.....	.....	.....	.....	.....	.....	.....	.....	.....	26,208	.....
535	Hard, G.....	.....	.....	.....	.....	17,759	.....	.....	.....	15,465	.....	.....	.....	12,291	.....	.....	.....
693	Hart, J. N. & Co.....	.....	.....	.....	.....	20,101	.....	.....	.....	18,037	.....	.....	.....	.....	.....	.....	.....
1,195	Hooker, H. E.....	.....	.....	.....	.....	28,593	.....	.....	.....	16,817	.....	.....	.....	12,427	.....	26,262	.....
1,006	Hawley, A.....	.....	.....	.....	.....	18,193	.....	.....	.....	16,339	.....	.....	.....	12,347	.....	25,736	.....
69	Hunter, D.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10,663	.....	.....	.....
280	Hinds, F. & Co.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25,227	.....
1,214	Harrington, C. A.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23,274	.....
391	Hopkins, H. & Co.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27,272	.....
413	Hilton, J. & K.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22,478	.....
1,091	Hitchcock, M. C.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19,928	.....
326	Ingraham, J.....	.....	.....	.....	.....	18,310	.....	.....	.....	16,534	.....	.....	.....	12,454	.....	25,857	.....
73	Jackson, J. jun.....	.....	.....	.....	.....	17,823	.....	.....	.....	16,133	.....	.....	.....	12,597	.....	24,127	.....
715	Kingsley, A. & Co.....	.....	.....	.....	.....	19,727	.....	.....	.....	19,033	.....	.....	.....	14,314	.....	29,462	.....

481	Co.....	.....	.....	.....	11,640	.....	21,935
566	W.....	.....	.....	.....	11,212	.....	28,765
912	E.....	.....	.....	.....	13,873	.....	19,673
300	Co.....	.....	.....	.....	13,395	.....	28,060
34	Co.....	.....	.....	.....	14,355	.....	26,386
948	P.....	.....	.....	.....	14,658	.....	21,999
298	O.....	.....	.....	.....	12,991	.....	21,878
1,156	Co.....	.....	.....	.....	10,495	.....	22,876
900	Co.....	.....	.....	.....	11,463	.....	25,667
592	.....	.....	.....	.....	11,948	.....	28,372
235	.....	.....	.....	.....	.....	.....	26,386
1,066	.....	.....	.....	.....	12,658	.....	22,673
529	.....	.....	.....	.....	10,677	.....	28,312
411	.....	.....	.....	.....	13,501	.....	28,441
86	.....	.....	.....	.....	.....	.....	13,785
820	.....	.....	.....	.....	.....	.....	24,973
590	.....	.....	.....	.....	.....	.....	25,685
357	.....	.....	.....	.....	.....	.....	33,014
1,196	Sloane, W. M.....	.....	.....	.....	16,067	.....	28,764
937	Schultz, A. H.....	.....	.....	.....	13,873	.....	27,901
794	Sherman, J. W.....	.....	.....	.....	12,940	.....	23,215
195	Spencer, U.....	.....	.....	.....	10,829	.....	32,290
1,169	Severance, H. M.....	.....	.....	.....	15,182	.....	30,097
768	Sherman, B.....	.....	.....	.....	14,174	.....	28,843
1,228	Storrs, H. E. & Co.....	.....	.....	.....	13,687	.....	24,648
618	Tousley, O. & Co.....	.....	.....	.....	11,755	.....	.....
1,097	Tenny, A.....	.....	.....	.....	12,481	.....	.....

BIDS ON SECTION WORK—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 308.				No. 309.				No. 310.				No. 311.			
		\$16,689				\$15,167				\$11,310				\$23,469			
558	Engineers' estimate,.....																
719	Turner, O.....	19,855				18,001				14,667				29,218			
895	Van Der Karr, L. & Co.....	20,678				18,941				14,410				28,811			
293	Vernam, J. & Co.....	17,474				16,073				12,027				25,903			
1,121	Washburn, J. C.....	23,591				21,483				.....				28,369			
1,110	Wright, J. T. & Co.....	19,193				17,183				12,940				27,901			
542	Williams, G. & Co.....	21,105				19,579				14,319				25,580			
	Wagner, D. & Co.....	.....				.....				11,788				.....		

BIDS FOR SECTION WORK—(CONTINUED.)

No. 90.]

483

No. of propositions.	NAMES OF BIDDERS.	No. 312.		No. 313.		No. 314.		No. 315.	
		\$13,634		\$15,913		\$18,990		\$9,609	
	Engineers' estimates,.....								
852	Brown, G.,.....	17,163		.....	.....	.....	.....	10,263	
171	Beebe, J. L. & Co.,.....	13,895		14,148	16,928	16,928	9,482		
956	Barton, D. R. & Co.,.....	16,619		16,663	21,164	21,164	10,944		
156	Buell, W.,.....	18,932		18,912	26,652	26,652	.....	.....	.....
474	Britton, J. W. & Co.,.....	14,989		15,301	19,679	19,679	9,974		
1,023	Barry, M. & Co.,.....	22,183		22,788	27,481	27,481	14,960		
79	Burrell, T.,.....	.....		17,109	24,628	24,628	11,364		
646	Cady, H. & Co.,.....	15,093		15,491	21,296	21,296	10,257		
1,055	Clyde, M. A. & Co.,.....	15,508		15,313	19,400	19,400	.....	.....	.....
3	Charliff, O.,.....	15,108		15,213	20,186	20,186	9,894		
868	Candee, W. & Co.,.....	15,605		15,590	19,677	19,677	9,622		
1,026	Candee, D. & Co.,.....	14,212		15,169	19,193	19,193	9,958		
49	Colton, J. C. & Co.,.....	16,293		16,870	20,512	20,512	11,078		
364	Clark, S. & Co.,.....	14,365		14,439	19,814	19,814	9,382		
332	Clark, O.,.....	15,136		15,081	19,232	19,232	.....	.....	.....
388	Crydeler, W.,.....	17,448		.....	26,105	26,105	.....	.....	.....
1,232	Cassidy, J.,.....	.....		.....	16,328	16,328	.....	.....	.....
1,057	Church, W. S.,.....	.....		.....	.....	.....	11,261		
148	Daniels, W. P. & Co.,.....	17,535		.....	.....	.....	.....	.....	.....
621	Daniels, C. A. & Co.,.....	.....		.....	18,288	18,288	9,924		
68	Duncan, C. W.,.....	.....		14,949	16,564	16,564	.....	.....	.....
84	Douglass, A. W.,.....	.....		13,746	34,031	34,031	.....	.....	.....

BIDS ON SECTION WORK—(CONTINUED.)

484

ASSEMBLY

408	Ellicott, J. & Co.,	16,351	16,037	23,535	10,582
46	Grant, L. A. G. B.,	.....	17,159	24,628	11,364
280	Hinds, F. & Co.,	16,163	16,305	21,404	10,469
295	Hayes, J.,	15,467	15,898	19,417	10,333
1,195	Hooker, H. E.,	16,237	16,222	22,027	10,613
1,006	Hawley, A.,	15,809	15,734	21,955	10,439
243	Hughes, J. B.,	15,621	.....	.....	.....
413	Hilton, J. M. K.,	14,196	.....	.....	.....
69	Hunter D.,	12,540	.....	.....	9,043
1,091	W. E.,	12,211	12,116	16,508	7,895
188	M. A.,	.....	14,745	19,720	.....
391	& Co.,	.....	.....	23,679	.....
811	Hewes, H. N.,	.....	.....	18,716	10,813
326	Ingraham, J.,	15,894	15,939	21,328	10,503
73	Jackson, J. Jr.,	16,025	16,778	20,947	10,559
715	Kingsley, A. & Co.,	17,689	17,673	23,865	13,212
566	Kneeland, S. W.,	14,256	14,472	17,367	9,390
486	King, J. B. & Co.,	.....	.....	19,778	.....
300	Loomis, H. & Co.,	13,457	13,714	.....	9,729
912	Lyman, T. A. E. & Co.,	17,122	17,106	.....	13,046
34	Moore, C. H. & Co.,	17,094	16,605	23,213	12,095

900	Mills, T. G. & Co.,	14,389	14,496	18,695	9,871
1,156	Mills, H. P. & Co.,	13,440	13,437	18,102	8,814
235	Meach, H.,	17,777	.....	23,896	11,592
597	Morgan, D. S.,	15,394	13,378	21,570	12,111
948-9	McDonald, A. P.,	16,561	16,545	22,727	11,019
298	Meigs, H. & Co.,	15,431	16,288	21,471	11,352
1,066	Nichols, J. H.,	16,561	16,545	22,737	11,019
471	Peck, L. J.,	17,061	16,956	27,984	15,173
86	Phillips, L. J.,	15,540	.....	23,813	12,049
529	Pringle, B.,	13,762	13,918	18,427	8,985
1,016	Peacock, J. & Co., .....	.....	.....	19,802	9,358
590	Ryan, J. & Co.,	15,755	16,273	19,944	10,743
35	Reed, E. S.,	15,245	.....	21,521	9,960
1,196	Sloane, W. M.,	20,510	20,491	27,844	13,593
937	Schultz, A. H.,	17,122	17,106	25,633	13,046
794	Shannehan, J. W.,	16,873	16,558	24,443	10,914
155	Spencer, U.,	14,295	14,873	19,014	9,659
768	Sherman, B.,	18,897	18,110	25,957	11,967
1,109	Severance, H. M.,	19,507	19,517	24,871	12,735
1,228	Storrs, H. E. & Co.,	17,569	17,433	24,457	11,578
55	Turner, O.,	17,471	17,396	23,617	11,489
618	.....	14,485	15,413	19,677	10,244
1,017	.....	.....	.....	.....	10,024
1,719	L. & Co.,	18,246	18,351	23,324	12,209
39	Vernam, J. & Co.,	15,351	15,486	20,251	10,083
1,12	Wright, J. T. & Co.,	16,873	16,378	24,443	10,914
1,11	Williams, G. & Co.,	18,209	18,251	24,800	12,108

BIDS ON SECTION WORK—(CONTINUED.)

NORTH ON INDEPENDENT LINE AT HOLLEY.

486

[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	Part of 288.	No. 289.	No. 290.	No. 291.	Aggregates.
	Engineers' estimate,.....	\$3,966	\$7,872	\$71,303	\$3,151	\$86,392
788	Bloss, W. C. & Co.....	.....	7,366	63,621	.....	.....
474	Britton, J. W.....	3,873	.....	.....	.....	.....
761	Breed, Jos.....	4,608	8,818	73,587	.....	.....
317	Butler, O. Jr. & Co.....	4,661	9,359	67,641	3,266	84,927
363	Barnard, A.....	4,382	8,348	57,532	3,310	73,572
3	Charlick, O.....	4,499	8,503	71,674	3,486	88,168
868	Candee, Wm.....	4,570	8,853	56,890	3,309	73,622
49	Colton, J. C. & Co.....	5,228	10,063	69,951	3,953	89,195
321	Chamberlain & Bradley.....	.....	9,843	78,653	3,778	.....
216	Curtis, D. F.....	4,340	.....	.....	.....	.....
715	Kingsley, A. & Co.....	5,428	10,211	79,582	4,209	99,430
481	King, John B.....	4,526	13,933	71,415	3,317	93,191
900	Mills, T. G. & Co.....	4,793	9,336	61,367	4,455	79,951
128	McCabe, Jno. & Co.....	.....	8,967	71,049	3,809	.....
662	Soper & Field.....	4,324	.....	.....	.....	.....
1,011	Sharp, D. & Co.....	4,346	.....	.....	.....	.....
395	Vernam, Jno. & Co.....	4,395	8,820	72,157	3,364	88,736
1,228	Wilder, A.....	4,037	.....	63,718	.....	.....

BIDS ON SECTION WORK—(CONTINUED.)

SOUTH LINE AT HOLLEY.

No. of proposition.	NAMES OF BIDDERS.	From A. to B.	Part of 200.	No. 201.	Aggregates.
	Engineers' estimate,.....	\$26,242	\$16,871	\$16,870	\$58,983
788	Bloss, W. C. & Co.....	.....	13,185	14,371	.....
474	Britton, J. W.....	.....	15,131	15,712	.....
761	Breed, Joseph.....	.....	15,133	17,256	.....
317	Butler, O. Jr., & Co.....	25,132	14,607	15,755	55,494
362	Barnard, A.....	22,309	13,161	15,986	61,456
3	Charlick, O.....	.....	13,990	16,799	.....
868	Candee, Wm.....	.....	14,608	17,158	.....
49	Colton, J. C. & Co.....	.....	15,452	19,129	.....
321	Chamberlain & Bradley.....	.....	16,678	19,357	.....
215	Curtis, D. F.....	.....	14,593	.....	.....
715	Kingsley, A. & Co.....	25,828	17,076	19,565	62,469
481	King, J. B.....	26,592	15,731	15,968	58,291
900	Mills, T. G. & Co.....	.....	14,571	16,876	.....
123	McCabe, Jno. & Co.....	.....	15,061	.....	.....
555	Pierce, S. & Co.....	.....	16,540	.....	.....
663	Soper & Field.....	.....	15,873	.....	.....
1,011	Sharp, D. & Co.....	.....	14,921	16,547	.....
395	Vernam, Jno. & Co.....	27,111	15,190	17,721	.....
816	Vernam, A.....	23,399	13,703	15,472	52,574
1,223	Wilder, A.....	.....	14,269	16,515	.....

BIDS FOR MECHANICAL STRUCTURES,

On sections 207 to 315 inclusive, viz: Locks 64, 65, 66 and guard lock, Genesee Feeder, Railroad Crossing, Mud Creek Aqueduct, Culverts and Waste-weirs.

No. of propositions.	NAMES OF BIDDERS.	Look 64.	Look 65.	Look 66.	Look 65.	Look 66.	Guard Look.
	Engineers' estimate,.....	\$23,270	\$22,952				\$11,858
1, 13	Archer, O.,.....	20,974	21,191	27,900	22,786	17,923	.....
1, 17	Buell, W.,.....	44,708	25,783	33,921	.....	.....	.....
1, 18	Ball, S. & Co.,.....	18,282	18,664	24,174	.....	.....	.....
1, 19	Boyce, P.,.....	20,633	21,465	28,655	22,389	18,534	.....
1, 20	Britton, J. W. & Co.,.....	.....	.....	.....	22,481	17,173	.....
1, 21	Chamberlain, & Co.,.....	19,571	21,733	29,085	25,457	20,382	16,076
1, 22	Curtis, D. F.,.....	22,519	22,713	39,569	.....	.....	.....
1, 23	Clark, F. & Co.,.....	19,278	20,109	25,843	22,442	17,886	.....
1, 24	& Co.,.....	19,573	20,191	26,287	23,298	19,012	.....
1, 25	.....	21,837	22,355	29,904	29,144	23,434	.....
1, 26	& Edgerton,.....	21,838	22,983	31,948	25,230	21,668	17,576
1, 27	S.,.....	21,837	22,355	29,601	29,144	23,434	.....
1, 28	.....	23,734	24,028	31,181	.....	.....	16,485
1, 29	.....	.....	.....	32,657	.....	20,657	.....
1, 30	& Co.,.....	18,608	19,344	25,093	20,903	17,065	.....
1, 31	.....	19,738	20,440	25,992	.....	.....	.....
1, 32	.....	21,857	22,320	28,346	.....	.....	.....
1, 33	.....	19,352	19,576	25,686	.....	.....	.....
1, 34	W.,.....	19,761	19,849	25,949	.....	.....	.....

81	Grant, L. A. G. B.,	22, 179	21, 910	29, 091	24, 504	19, 845	20, 660
334	Green, N. B. & Co.,	29, 156	30, 411	37, 845	.....	.....	.....
38	Homan, B.,	18, 239	19, 465	25, 046	.....	.....	.....
95	Hutchins, F. & Co.,	21, 419	21, 978	29, 766	24, 701	19, 900	.....
244	Hewes, J. B.,	21, 409	22, 340	31, 532	23, 011	20, 919	17, 374
500	Hayes, J. & Co.,	21, 327	20, 662	26, 596	23, 446	18, 683	.....
919	Hunt, S. J.,	22, 425	23, 016	32, 848	.....	.....	.....
167	Jerome, H. K. & Co.,	20, 928	21, 520	25, 609	23, 684	18, 942	14, 861
12	James,	20, 455	20, 820	27, 731	23, 330	17, 764	13, 217
13, 516	.....	19, 051	19, 519	25, 003	22, 442	18, 152	.....
975	Law, G.,	25, 679	26, 225	34, 210	29, 491	23, 841	18, 641
30	Mirick, J. & Co.,	22, 259	22, 022	31, 973	.....	.....	.....
347	Milliner, J. P. & Co.,	22, 092	23, 542	29, 929	25, 254	19, 427	17, 517
561	McCabe, J. & Co.,	22, 142	21, 485	29, 297	22, 649	19, 475	.....
1, 086	Mills, M. H. & Co.,	18, 823	19, 399	27, 405	22, 258	18, 185	15, 691
1, 155	Mills, H. P. & Co.,	18, 576	19, 658	25, 476	21, 283	17, 599	.....
560	McGovern, T. & Co.,	35, 578	34, 635	46, 242	.....	.....	.....
857	Mudge, S. W.,	22, 891	25, 866	31, 949	.....	.....	.....
219	O'Neill, W. & Co.,	.....	23, 815	30, 129	25, 918	21, 037	8, 026
110	Peck, L. J.,	22, 161	22, 619	30, 345	23, 269	19, 411	19, 295
97	Peterson, G. & Co.,	21, 117	21, 989	28, 493	23, 489	19, 198	.....
486	Palmeter, E. A.,	19, 596	20, 260	27, 571	.....	.....	.....
172	Quinn, Inc.,	.....	.....	.....	.....	.....	.....
731	Richardson, D. H.,	20, 341	19, 245	27, 842	31, 053	24, 795	9, 145
1, 074	Russell, J.,	22, 856	23, 817	30, 869	25, 268	20, 830	.....
501	Smith, E. W.,	24, 156	24, 120	31, 718	31, 240	25, 857	13, 749
571	Strong, M.,	28, 682	29, 605	40, 254	30, 201	24, 240	21, 332

BIDS FOR MECHANICAL STRUCTURES—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Lock 64.	Lock 65.	Lock 66.	Lock 65.	Lock 66.	Guard Lock.
	Engineers' estimate,.....	\$23,270	\$22,952	\$28,470	.....	.....	\$11,858
805	Swain, J. B. & Co.,	20,413	21,868	32,343	24,649	18,428	.....
587	Seeley, L.,.....	20,037	20,230	26,314	29,071	23,422	10,944
1,165	Severance, H. M.,	20,238	21,566	29,239	23,865	19,667	.....
404	Storrs, H. E.,	22,453	23,644	31,618	25,719	20,291	15,729
903	Smith, P. & Co.,.....	23,486	23,953	31,510	26,616	21,453	12,057
1,029	Stansbury, E., .....	.....	.....	.....	22,857	17,925	.....
76	Turner, Otis,.....	22,163	22,083	29,461	.....	.....	11,767
57	Vernam, J. & Co., .....	.....	20,557	27,370	22,779	18,471	.....
97	Van Valkenburgh, D. A. & Co.,.....	23,571	23,910	31,823	24,702	19,013	.....
818	Vernalee, S. & Co.,.....	24,478	25,304	32,082	25,970	20,620	.....
546	Wagner, D. & Co.,.....	22,445	23,093	31,784	25,357	20,164	18,002
740	Williams, G. & Co.,.....	19,962	20,674	27,718	22,994	18,870	13,719
1,120	Wright, J. T. & Co.,.....	21,837	22,355	29,601	29,144	23,434	12,824

BIDS FOR MECHANICAL STRUCTURES—(CONTINUED.)

No. of proposals.	NAMES OF BIDDERS.	Mud Creek Aqueduct.		Railroad crossing.
		Engineers' estimate,		
		\$33,935	\$13,529	
463	Akenhead, W. R.	28,185		
879	Baldwin, Harwood & Co.	26,994		
1,141	Boyce, P.	24,708	11,061	
1,137	Boyce & Green.	26,135		
1,217	Ball, S. & S. S.	27,777		
1,039	Burchard, Bixby & Co.	29,968		
388	Clark, P. W.	28,317		
690	B.	22,355	11,131	
103	Lacy & Quirk,	29,940	17,410	
577	Chamberlain & Edgerton,	30,933	14,739	
89	Clarke, E.	29,117		
320	Chamberlain & Bradley.	31,095	14,563	
345	Clark, J. W.	26,843		
666	Caswell, N. B.	29,829		
1,084	Davidson, J.	24,161	14,331	
789	Dodge, Nellis & Co.	23,534	13,059	
1,033	De Graw, C. J. & Co.	22,365	11,013	
416	Ennis, R.	26,800		
473	Ennis, Randall & Co.	32,979		
1,079	Ellis, L. D. & Co.		12,966	
505	Ennis, E.		18,173	

BIDS FOR MECHANICAL STRUCTURES--(CONTINUED.)

492

ASSEMBLY

N. of proj. etion.	NAMES OF BIDDERS.	Mud Creek Aqueduct.		Railroad crossing.	
		\$33,935		\$13,529	
292	Fletcher T.	24,858		.....
251	W.	25,549		.....
895	Hudnut & Bissell.	26,086		.....
457	Howell & Chadwick.	27,264		.....
843	Howell & Robinson.	32,803		.....
240	Hughes, J. B.	30,981		.....	14,423
166	Jerome, H. K. & Co.	28,959		.....	13,098
41	Keyes & Smith.	28,445		.....	14,485
512	Knapp, E.	23,051		.....	11,345
179	Kimball W. & Co.	28,080		.....
275	Kenyon, D.	29,878		.....
892	Lamoreaux, A. O.	28,480		.....
373	Leach, J. & E.	23,645		.....	13,010
974	Law, George.	35,806		.....	18,629
899	Mills, T. G. & Co.	25,995		.....	13,697
129	Mirick, J. & H.	27,575		.....
858	Mudge, S. W. . . . .	.....		.....	21,380
111	Peck, L. J.	34,576		.....	16,419
983	Palmer, H. & Co.	19,864		.....
640	Rogers, J. C.	25,725		.....
735	Richardson, D. H. . . . .	.....		.....	16,713

373	Storrs, H. E. & Co.....	29,446	13,479
272	Voorhies, W.....	28,930	.....
1,109	Williams & Moore.....	32,161	15,915
685	Williams & Palmeter.....	29,635	14,621
543	Wagner, D. & Co.....	36,241	16,089

BIDS FOR MECHANICAL STRUCTURES—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	L'Angepait Creek Culvert.		Allen's Creek Culvert.
		Engineers' estimate,	\$34,675	\$15,068
1,140	Archer & Boyce.....	26,016	9,220	
694	Britton & Swain.....	23,144	12,388	
728	Bull & Hill.....	40,623	14,761	
1,143	Boyce, P.....	26,475	9,035	
1,216	Ball, S. & S. S.....	27,023	10,857	
953	Barton & O'Maley.....	63,657	15,934	
1,023	Barry, M. & Co.....	28,730	10,094	
158	Buell, W.....	23,519	13,512	
633	Cochrane & Rigney.....	31,397	.....
800	Church, R.....	33,358	13,882	
939	Calline C. & Co.....	23,120	9,533	
944	.....	25,401	9,784	
579	Chamberlain & Co.....	32,015	11,573	
520	Clark, J. L. & Co.....	25,866	8,914	
26	Colt, H. V.....	33,478	13,075	
212	Curtis, D. F.....	24,388	10,228	
319	Chamberlain & Bradley.....	31,308	12,200	
56	Clark & Learned.....	28,783	11,916	
101	Cady & Butler.....	30,162	12,302	
1,058	Church, W. S.....	33,303	13,097	
6	Chadwick, O.....	38,899	13,586	

145	Douglass & Jackson.....	24,232	11,166
965	De Lano & Lund.....	39,378	14,448
476	Donaldson & Co.....	27,927	11,281
209	Dodge, Nellis & Co.....	27,656	11,320
421	Ennis, R.....	27,155	10,299
82	Grant, L. A. G. B.....	31,072	11,942
497	Hayes, J.....	30,246	11,937
245	Hughes, J. B.....	29,086	11,307
1,038	Haggerty & Dimond.....	23,166	9,488
781	Johnson, M. F.....	27,567	.....
169	Jerome & McCormick.....	28,323	11,173
42	Keyes & Smith.....	27,393	11,117
13	Kingsley & James.....	33,875	13,140
514	Knapp, E.....	.....	9,014
972	Law, G.....	38,899	13,586
707	McCabe & Co.....	40,064	14,666
346	Milliner, J. P. & Co.....	27,413	11,131
191	Moore & Barnard.....	34,361	13,486
449	Martindale, J. H. & Co.....	33,007	13,403
1,157	Mills & Harwood.....	26,542	.....
563	McPherson, J.....	.....	12,107
933	Olney & Brill.....	23,601	.....
367	Osburn & Jones.....	27,752	10,360
574	Peck, L. J.....	27,979	11,178
556	Peirce, S. & Co.....	.....	9,138
528	Pringle, B.....	24,146	.....
915	Quackenboss, N. & L.....	30,045	10,990

BIDS FOR MECHANICAL STRUCTURES—(CONTINUED.)

496

[ASSEMBLY

	West Creek Culvert.	Allen's Creek Culvert.
	\$34,675	\$15,068
Smith, G.	34,637	12,759
Stansbury, E.	28,149	8,607
Sharp, D. & Co.	32,870	12,138
Storrs, H. E. & Co.	29,927	11,559
Smith, E. P.	24,678	8,308
Turner, O.	34,600	14,262
Vernam, J. & Co.	28,928	11,545
Wagner & Loving,	27,770	
Walker, W.	27,513	
Welles, H. S.	34,121	
Whitney, J. W. & Co.	31,960	9,873
Williams, G. & Co.	28,894	13,456
Wright, J. T. & Co.	27,313	12,438
	28,877	11,819
	25,086	10,511
	33,214	11,047
	24,540	
	33,358	

CULVERTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 207.	No. 208.	No. 209.	No. 210.—1.	No. 210.—2.	No. 211.
	Engineers' estimate,.....	\$6,503	\$2,289	\$2,487	\$4,360	\$4,179	\$2,681
674	Akenhead & Co.,	6,113	.....	.....	.....	.....	.....
681	Andrus & Hall, .....	.....	.....	.....	.....	.....	2,016
694	Britton & Swain,.....	5,281	2,119	2,086	3,829	3,494	2,859
1,022	Barry & McGraw,.....	7,819	3,201	3,418	5,107	4,731	3,401
960	Barton & O'Maley,.....	.....	2,736	2,808	4,874	5,058	3,111
115	Clark, P. W.,	6,401	2,374	2,332	3,737	3,739	2,699
668	Caswell, N. B.,	6,936	2,550	2,578	4,303	4,204	2,572
800	Church, R.,.....	5,427	2,615	2,391	4,612	4,311	3,045
579	Chamberlain & Edgerton,.....	4,828	2,028	2,019	3,617	3,425	2,373
369	Clarke, E.,.....	5,573	2,037	2,231	4,071	4,117	2,358
319	Chamberlain & Bradley,	4,869	2,094	2,076	3,708	3,492	2,591
55	Clark & Learned,	5,037	2,236	2,218	4,036	3,660	2,468
101	Cady & Butler,.....	5,344	2,460	2,435	4,225	3,918	2,807
1,058	Church, W. S.,.....	5,586	2,626	2,433	4,511	4,291	3,106
385	Clark, J. W.,.....	6,595	2,161	2,412	4,033	3,810	2,462
476	Donaldson, S. & Co.,	5,281	.....	.....	.....	.....	.....
421	Ennis, R.,	4,406	1,852	2,073	3,688	3,420	3,799
256	Goodrich, J. W.,.....	5,054	2,025	2,129	3,754	3,530	3,314
245	Hughes, J. B.,	5,058	2,315	2,216	4,050	3,799	2,803
1,087	Houghtaling, A.,	4,943	1,839	1,892	3,288	3,184	2,112

CULVERTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 209.	No. 208.	No. 207.	No. 210.—1.	No. 210.—2.	No. 211.
	Engineers' estimate,.....	\$2,487	\$2,289	\$6,503	\$4,360	\$4,179	\$2,681
691	Hart & Spear,	2,745	3,280	6,491	.....	.....	.....
276	Kenyon, D.,.....	.....	.....	11,444	4,143	3,905	.....
1,227	Kingsbury, T. H.,.....	2,462	.....	.....	4,100	3,673	2,878
193	Lamoreau, A. G.,.....	.....	.....	12,455	3,943	3,669	.....
972	Law, G.,.....	2,592	2,527	6,034	4,296	4,057	3,077
764	McCartney, H. & Co.,	1,948	1,960	4,849	3,797	3,548	2,518
459	Miller, J.,.....	2,522	2,371	5,977	3,384	4,042	3,101
1,157	Mills & Harwood,.....	1,999	1,934	4,754	3,559	3,337	2,264
418	Nellis, R. S.,.....	.....	.....	11,714	.....	.....	.....
574	Peck, L. J.,.....	2,513	2,234	6,051	4,735	4,556	3,081
236	Stage, J. N.,.....	1,688	2,012	4,596	.....	.....	.....
996	Storrs, H. E.,	2,177	2,056	3,734	3,683	3,445	2,626
642	Snedaker, A.,.....	.....	.....	.....	4,002	3,828	3,018
58	Vernon, J. & Co.,.....	2,290	2,333	5,126	.....	3,765	2,621
273	Voorhies, W.,.....	2,330	2,233	.....	3,849	3,625	2,503
545	Wagner & Leving,	2,055	2,093	4,902	3,734	3,467	2,441
840	Wood, Clark, & Co.,	2,456	2,614	5,651	4,049	3,760	2,889
1,175	Williams, G. & Co.,	2,059	2,127	5,381	3,684	3,432	2,797
1,119	Wright, J. T. & Co.,.....	2,091	2,615	7,577	4,612	4,310	3,045

CULVERTS—(Continued.)

No. of proposition.	NAMES OF BIDDERS.	No. 214.	No. 215.	No. 1—216.	No. 2—215.	No. 218.—1.	No. 218.—2.
	Engineers' estimate,.....	\$2,425	\$6,294	\$5,662	\$3,233	\$2,540	\$4,361
674	Akenhead, & Co.,.....	.....	.....	4,333	2,759	2,319	3,385
681	Andrus & Hall,.....	.....	.....	3,711	2,215	1,902	2,905
462	Akenhead, W. & R. A.,.....	.....	.....	5,271	3,396	2,622	4,352
694	Britton & Swain,.....	2,067	5,141	4,579	2,573	2,226	3,769
1,022	Barry & McGraw,.....	5,388	3,166	6,310	4,148	3,766	5,071
960	Barton & O'Maley,.....	2,753	6,307	6,248	3,534	2,930	5,050
115	Clark, P. W.,.....	3,047	6,183	5,012	3,016	2,617	4,171
660	Caswell, N. B.,.....	2,516	5,530	.....	.....	2,555	.....
800	Church, R.,.....	2,572	5,677	5,534	2,878	2,532	4,612
519	Chamberlain & Edgerton,.....	2,001	4,959	4,528	2,466	2,144	3,717
369	Clarke, E.,.....	2,354	6,405	5,751	2,881	2,524	4,262
319	Chamberlain & Bradley,.....	2,058	5,008	4,561	2,514	2,201	3,770
55	Clarke & Learned,.....	2,196	5,187	4,836	2,801	2,387	3,930
101	Cady & Butler,.....	2,412	5,672	5,138	3,049	2,610	4,147
1,058	Church, W. S.,.....	2,414	5,776	5,543	2,919	2,573	4,588
385	Clark, J. W.,.....	2,392	6,182	5,619	2,949	2,561	4,401
1,001	Corbett, M.,.....	.....	.....	.....	.....	3,297	4,066
421	Ennis, R.,.....	2,123	4,926	4,333	2,518	2,200	3,542
256	Goodrich, J. W.,.....	2,059	5,029	4,761	2,858	2,511	3,939
82	Grant, L. A. G. B.,.....	.....	.....	.....	.....	2,486	4,526
245	Hughes, J. B.,.....	2,197	5,238	4,898	2,678	2,350	4,060

CULVERTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 214.	No. 215.	No. 216.—1.	No. 216.—2.	No. 1.—218.	No. 2.—218.
1,087	Houghtailing, A.,.....	\$2,425	\$6,294	\$5,662	\$3,233	\$2,540	\$4,361
276	Kenyon, D.,.....	2,012	.....	.....	.....	.....	.....
493	Lamoreau, A. O.,.....	.....	.....	5,276	3,182	3,062	4,573
972	Law, G.,.....	.....	.....	4,836	3,199	3,059	4,515
638	Layton & Rogers,.....	2,570	6,194	5,903	3,079	2,731	4,953
374	Leach, J. & Co.,.....	2,181	5,461	.....	.....	.....	.....
764	McCartney, H. & Co.,.....	1,996	5,106	4,490	2,513	2,109	3,736
459	Miller, I.,.....	2,165	5,047	4,533	2,671	2,325	3,726
1,157	Mills & Harwood,.....	2,418	6,376	5,554	3,302	.....	.....
837	Marsh, W. N.,.....	1,980	4,884	4,337	2,486	2,138	3,691
574	Peck, L. J.,.....	2,016	5,030	4,750	2,621	2,175	3,880
996	Storrs, H. E. & Co.,.....	2,494	5,523	5,700	2,959	2,638	4,823
642	Snedaker, A.,.....	2,155	5,235	4,421	2,664	2,316	3,693
1,046	Sherrill, J. H. & Co.,.....	2,053	5,506	4,658	.....	.....	.....
58	Vernam, J. & Co.,.....	.....	.....	.....	.....	2,309	3,566
273	Voorhies, W.,.....	2,225	5,266	4,897	2,856	2,423	3,964
545	Wagner & Levings,.....	2,074	6,328	5,679	3,148	2,516	4,025
1,175	Williams, G. & Co.,.....	2,038	5,046	4,592	2,493	2,181	3,766
1,119	Wright, J. T. & Co.,.....	2,238	5,510	4,517	2,767	2,398	3,662
688	Williams & Palmeter,.....	2,372	5,677	5,534	2,878	2,532	4,612
431	Webster, A.,.....	.....	4,830	4,287	2,441	2,038	3,486
		.....	.....	.....	.....	2,592	4,196

CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 1.—228.	No. 2.—228.	No. 229.	No. 232.	No. 234.	No. 238.	No. 239.
		Engineers' estimate,	\$3,222	\$2,712	\$5,082	\$3,945	\$4,198	\$5,953
681	Andrus & Hall, . . . . .	.....	.....	.....	.....	2,999	.....	.....
462	Akenhead, W. & Co.,	2,620	3,453	2,746	5,153	3,921	3,971	5,777
694	Britton & Swain,	2,276	3,120	2,556	4,403	3,750	3,750	5,320
1,022	Barry & McGraw, . . . . .	.....	.....	.....	6,352	5,228	5,262	6,815
960	Barton & O'Maley,	3,017	4,008	3,170	5,944	4,144	5,144	7,168
644	Barnard, G. W.,	2,520	3,001	2,518	5,003	4,098	4,153	5,873
116	Barney & Hildreth, . . . . .	.....	2,778	2,237	5,060	3,446	.....	.....
1,143	Boyce, P., . . . . .	.....	.....	.....	.....	.....	.....	4,874
115	Clark, P. W.,	2,722	3,222	2,732	4,740	3,808	4,108	5,733
668	Caswell, N. B.,	2,605	3,086	2,625	4,880	3,890	4,030	5,744
800	Church, R.,	2,582	3,841	2,637	5,309	4,567	4,567	6,628
579	Chamberlain & Edgerton,	2,189	2,826	2,261	4,314	3,665	3,665	5,267
369	Clark, E.,	2,454	3,060	2,582	4,966	3,830	3,979	5,366
319	Chamberlain & Bradley,	2,246	2,969	2,310	4,371	3,727	3,727	5,309
101	Cady & Butler,	2,807	2,522	2,864	5,166	.....	4,421	6,179
1,058	Church, W. S.,	2,623	3,501	2,722	5,318	4,538	4,538	.....
385	Clark, J. W.,	2,502	3,410	3,112	4,994	3,870	4,020	5,675
1,001	Corbett, M.,	3,169	3,665	3,098	5,410	5,006	4,710	.....
55	Clark & Learned,	2,447	3,068	2,445	4,611	3,761	3,961	5,609
421	Ennis, R.,	2,000	2,608	2,211	4,071	3,523	3,573	5,130
470	Ennis, Randall & Co., . . . . .	.....	.....	.....	.....	.....	3,702	5,132

CULVERTS ON SECTIONS—(CONTINUED.)

502

[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	No. 1.—222.	No. 2.—223.	No. 3.—224.	No. 225.	No. 226.
	Engineers' estimate,.....	\$2,589	\$3,222	\$3,945	\$4,198	\$5,958
256	Goodrich, J. W.,.....	2,361	2,789	3,547	.....	.....
82	Grant, L. A. G. B.,.....	2,761	3,835	4,283	4,283	6,183
245	Hughes, J. B.,.....	2,396	3,183	4,036	4,036	5,031
1,153	Hudnut & Bissell,.....	.....	.....	.....	3,836	5,527
276	Kenyon, D.,.....	.....	.....	3,190	3,316	4,686
514	Knapp, E.,.....	.....	.....	.....	.....	4,912
972	Law, G.,.....	2,781	3,491	4,290	4,304	6,956
374	Leach, J. & E. B.,.....	2,928	2,818	3,411	3,511	4,970
493	Lamorean, A. O.,.....	.....	.....	3,541	3,848	5,339
1,157	Mills & Harwood,.....	2,188	2,760	3,580	3,580	6,080
837	Marsh, W. N.,.....	2,225	3,329	3,844	.....	.....
400	Moore, S.,.....	2,126	2,788	3,718	3,713	5,364
574	Peck, L. J.,.....	2,678	4,003	4,772	4,774	6,318
985	Palmer, Hinman & Co.,.....	.....	.....	.....	.....	4,317
996	Storrs, H. E. & Co.,.....	2,366	2,978	3,694	5,098	5,339
642	Snedaker, A.,.....	2,430	.....	.....	.....	.....
1,046	Sherrill, A. H. & Co.,.....	.....	.....	3,520	3,520	4,863
58	Vernam, J.,.....	2,501	3,127	4,005	3,880	4,411
545	Wagner & Levings,.....	2,226	3,063	3,702	3,702	5,330
1,175	Williams, G. & Co.,.....	2,449	3,106	3,649	4,567	5,141
1,119	Wright, J. T. & Co.,.....	2,582	3,441	4,567	.....	6,628
698	Williams & Palmeter,.....	2,057	2,602	.....	.....	.....

CULVERTS ON SECTIONS—(Continued.)

24 20.

503

No. of proposition.	NAMES OF BIDDERS.	No. 246.		No. 253.		No. 255.		No. 260.—1.		No. 260.—2.		Genesee Fee-der.
		\$1,732		\$1,732		\$6,674		\$1,185		\$777		
	Engineers' estimate,.....	\$1,732		\$1,732		\$6,674		\$1,185		\$777		\$1,370
681	Andrus & Hall,.....	.....		.....		.....		882		601		.....
462	Akenhead, W. & R. A.,.....	1,714		.....		.....		.....		.....		.....
1,140	Archer & Boyce,.....	.....		.....		6,112		.....		.....		.....
728	Bull & Hill,.....	.....		.....		8,496		.....		.....		.....
694	Britton & Swain,.....	.....		.....		5,623		.....		.....		1,692
960	Barton & O'Maley,.....	.....		.....		6,576		3,693		869		2,307
1,143	Boyce, P.,.....	2,130		3,591		5,251		1,034		.....		.....
1,022	Barry, M. & Co.,.....	1,402		1,402		9,228		1,854		1,498		2,479
158	Buell, W.,.....	2,289		2,304		7,070		1,516		1,084		2,073
116	Barnard & Hildreth,.....	1,858		1,826		.....		.....		.....		.....
1,216	Ball, S. & S. S.,.....	.....		1,249		.....		.....		.....		.....
800	Church, R.,.....	.....		.....		5,994		.....		.....		.....
929	Collins, J. & C.,.....	1,726		1,742		7,538		1,643		1,134		.....
579	Chamberlain & Edgerton,.....	1,521		1,537		5,729		736		532		.....
620	Clark, J. L. & Co.,.....	1,400		1,420		6,538		1,209		877		1,655
319	Chamberlain & Bradley,.....	1,365		2,442		5,027		881		608		1,220
55	Clark & Learned,.....	1,498		1,505		6,512		.....		.....		.....
101	Cady & Butler,.....	1,567		1,579		5,276		1,334		960		1,832
1,058	Church, W. S.,.....	1,827		1,847		6,682		1,560		1,160		2,083
6	Chadwick, O.,.....	1,710		1,706		7,636		.....		.....		.....
212	Curtis, B. F.,.....	1,740		1,756		6,740		1,482		1,054		1,986
		.....		.....		5,905		.....		.....		.....

CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 246.	No. 253.	No. 255.	No. 260.—1.	No. 290.—2.	Genesee Recorder.
		\$1,732	\$1,732	\$6,674	\$1,185	\$777	
1,001	Engineers' estimate,.....						\$1,370
145	Corbett, M.,.....	.....	.....	.....	1,311	961	.....
476	Douglas & Jackson,.....	.....	.....	6,160	1,112	.....	.....
965	Donaldson, S. & Co.,.....	1,509	1,525	5,703	895	613	.....
147	Delano & Lund,.....	.....	.....	7,627	.....	.....	.....
421	Daniels & Douglass,.....	.....	.....	.....	.....	.....	1,640
836	Ennis, R.,.....	1,629	1,649	6,069	1,235	866	.....
82	Green, Benson & Co.,.....	.....	.....	.....	1,387	921	.....
245	Grant, L. A. G. B. ....	.....	.....	7,703	.....	.....	.....
1,038	Hughes, J. B.,.....	1,085	1,609	6,910	1,776	1,321	1,932
599	Haggerty & Dimon,	1,751	1,767	5,685	1,059	749	.....
781	Hardy & James,.....	.....	.....	.....	.....	.....	1,403
24	Johnson, M. F.,.....	.....	.....	5,034	.....	.....	.....
514	Jenkinson, J. & Co.,.....	.....	.....	.....	.....	.....	1,442
42	Knapp, E.,.....	.....	.....	.....	892	636	1,280
972	Keyes & Smith,.....	.....	.....	6,601	.....	.....	.....
490	Law, G.,.....	1,474	.....	6,740	1,482	1,054	1,986
701	Moore, S.,.....	1,571	1,546	8,905	.....	.....	.....
1,157	McCabe, Short & Co.,.....	1,460	.....	6,135	1,069	745	1,501
346	Mills & Harwood,.....	.....	.....	5,474	1,248	876	.....
191	Milliner, J. P. & Co.,.....	.....	.....	7,349	.....	.....	.....
	Moore & Barnard,.....	.....	.....	.....	.....	.....	.....

449	Martindale, J. & Co.,	2,296	.....	8,391	.....	.....	.....
905	O'Brien, J.,	.....	.....	.....	.....	.....	.....
367	Osburn & Jones,	.....	.....	6,089	1,177	780	1,698
528	Pringle, B.,	1,209	1,923	5,083	.....	.....	.....
374	Peck, L. J.,	1,872	1,888	6,860	1,306	977	1,713
556	Pierce, S. & Co.,	.....	.....	.....	1,059	690	.....
915	Quackenboss, N. & L.,	.....	.....	7,346	1,721	.....	.....
812	Richardson, D. H.,	1,464	.....	.....	1,391	936	.....
807	Swain & Nodwell,	1,487	1,483	7,410	1,105	776	.....
585	Selye, L.,	1,595	1,611	6,296	1,438	701	1,599
1,166	Severance, H. M.,	1,365	1,383	6,961	1,292	.....	.....
1,046	Sherrill, J. H. & Co.,	1,394	.....	5,638	.....	.....	.....
1,030	Stansbury, E.,	1,462	1,436	.....	1,439	947	.....
996	Storrs, H. E. & Co.,	1,545	1,565	5,976	1,226	848	1,638
998	Smith, G.,	.....	.....	7,063	.....	.....	.....
558	Vernam, J. & Co.,	1,602	1,624	5,526	1,338	962	1,842
545	Wagner & Leving,	1,434	1,464	7,054	1,587	1,216	1,829
267	Welles, H. S.,	2,007	1,793	.....	.....	.....	.....
1,202	Whitney, J. & Co.,	2,083	2,103	9,708	1,932	.....	1,592
1,175	Williams, G. & Co.,	1,452	1,517	6,000	1,165	831	.....
1,119	Wright, J. T. & Co.,	1,729	1,745	7,418	1,643	1,134	.....

CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition	No. 266.	No. 270.	No. 271.	No. 274.	No. 275.
	\$5,857	\$4,918	\$5,828	\$1,562	\$4,120
113 Avery, Elias.....	6,528	5,864	.....	.....	.....
958 Barton, D. R. & Co.....	7,757	6,713	9,013	2,096	5,357
595 Bell, John L.....	5,160	4,771	5,530	1,338	4,282
360 Bridges & Ennis.....	6,197	.....	.....	1,892	.....
694 Britton & Swain.....	6,164	5,852	6,350	1,610	4,834
318 Butler & Stranbrough.....	4,962	4,410	4,844	1,259	3,739
158 Buell, William.....	7,432	6,548	7,460	1,940	5,493
1,022 Barry, Michael & Co.....	6,746	6,767	8,013	2,430	5,692
101 Cady & Butler.....	6,748	5,871	7,115	1,966	5,033
300 Church, Richard.....	7,044	5,907	7,594	1,883	5,016
55 Clark & Learned.....	6,228	1,771	6,919	1,712	4,612
6 Charliff, Oliver.....	6,866	1,945	7,919	1,889	5,042
303 Cartiss, H. M.....	6,876	2,301	.....	.....	.....
579 Chamberlain, C. T. & Co.....	5,859	1,672	6,196	1,620	4,553
521 Cole, Peter P.....	.....	1,432	5,424	.....	.....
319 Chamberlain & Bradley.....	6,060	1,660	6,320	1,610	4,495
147 Daniels & Douglass.....	.....	1,617	6,049	1,563	4,532
893 Ely, L. D.....	6,915	1,792	7,220	1,730	5,357
82 Grant, L. A. G. B.....	6,767	.....	.....	.....	4,952
599 Hardy James.....	5,112	1,840	5,511	1,262	4,150
245 Hughes, J. B.....	6,876	1,831	7,467	1,781	5,002

281	Hinds & Copeland.....	6,366	1,922	5,794	.....	.....	.....
1,153	Hudnutt & Bissell.....	6,217	1,639	5,121	.....	.....	.....
247	Jenkinson, J. & Co.....	5,381	1,368	4,929	5,569	1,357	4,351
169	Jerome & McCormick.....	5,914	.....	.....	.....	.....	.....
346	Milliner, J. P. & Co.....	.....	1,448	4,990	5,844	1,422	4,540
837	Marsh, W. N.....	.....	.....	.....	6,405	.....	.....
1,157	Mills, H. P. & Co.....	.....	1,478	4,927	6,072	1,428	4,118
218	O'Neil, W. & Son.....	.....	1,603	5,152	.....	.....	.....
367	Osburn, & Jones.....	5,773	1,533	5,119	.....	.....	.....
906	O'Brien, James.....	.....	2,312	6,311	6,373	1,480	.....
521	Page, P. P.....	.....	.....	.....	8,270	2,254	5,178
589	Ryan & Swan.....	.....	.....	.....	.....	1,395	.....
1,127	Ross, M. L.....	6,462	1,948	5,663	8,011	1,889	4,749
996	Storrs, Hiram E. & Co.....	5,547	1,570	4,993	6,016	1,610	4,228
1,012	Sharp, Daniel & Co.....	5,951	1,679	5,340	6,533	1,624	4,490
585	Seeleye, Lewis.....	6,355	1,670	5,607	6,646	1,767	.....
605	Thompson, J. R.....	5,642	1,350	.....	.....	.....	.....
658	Thomson, C. B. & Co.....	4,835	1,266	4,228	4,949	1,290	3,665
559	Turner, Otis.....	6,086	1,446	4,991	5,902	1,404	4,181
58	Vernam, John & Co.....	6,630	1,756	5,643	7,118	1,698	4,778
545	Vagner & Levings.....	6,515	1,786	5,547	7,838	1,722	4,638
840	Wood & Clarke..	6,446	1,732	5,428	7,058	1,688	4,609
1,175	Williams, Geo. & Co.....	5,838	.....	.....	.....	.....	.....
1,119	Wright, J. T. & Co.....	5,653	1,516	5,115	6,614	1,563	4,289
		7,044	1,934	5,907	7,594	1,883	5,016

CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 276.	No. 277.	No. 278.	No. 279.	No. 280.	No. 281.
	Engineers' estimate,.....	\$2,677	\$3,963	\$2,750	\$6,105	\$1,511	\$2,860
318	Butler & Starnbrough,	2,290	3,310	2,373	5,324	1,371	2,481
958	Barton, D. R. & Co.,.....	3,902	5,495	4,021	7,771	2,226	4,174
595	Bell, J. L.	2,616	4,014	2,860	.....	.....	.....
360	Bridges & Ennis,.....	3,233	.....	3,272	6,647	1,767	3,174
694	Britton & Swain,.....	2,978	4,341	3,095	6,295	1,751	3,152
158	Buell, Wm.,.....	3,562	5,156	3,661	7,776	2,116	3,780
1,022	Barry, M. & Co.,.....	3,990	5,563	4,142	7,318	2,633	4,266
101	Cady & Butler,	3,470	4,948	3,560	6,869	2,141	3,690
808	Church, Richard,	3,637	5,342	3,698	7,340	2,027	3,805
55	Clark & Learned,	3,106	4,480	3,194	6,306	1,877	3,318
6	Charliff, Oliver,.....	3,743	5,550	3,812	.....	2,032	3,911
579	Chamberlain, C. T. & Co.,.....	2,956	4,279	3,051	.....	1,710	3,042
319	Chamberlain & Bradley,	3,010	4,381	2,980	.....	1,702	3,132
23	Clark, Orville,.....	.....	.....	.....	.....	1,736	.....
147	Daniels & Douglass,.....	2,862	4,146	2,950	.....	1,716	3,057
823	Ely, L. D.,.....	3,360	4,953	3,438	6,995	1,907	3,997
82	Grant, Lathrop A. G. B.,.....	.....	.....	.....	7,025	.....	.....
599	Hardy, James,.....	2,539	3,814	2,752	.....	.....	.....
245	Hughes, J. B.,.....	3,531	5,229	3,593	6,899	1,920	3,687
281	Hinds & Copeland,.....	.....	.....	.....	.....	2,033	3,514
189	Harrington, M. A. & Co.,.....	.....	.....	.....	.....	1,731	3,259

CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition	No. 282.	No. 287.	No. 288.	No. 290.	No. 291.	No. 292.
	\$3,616	\$6,356	\$1,403	\$19,358	\$1,411	\$2,910
958	4,676	7,897	1,893	22,388	1,992	2,640
362	3,950	7,003	1,688	19,597	1,673	.....
694	3,832	6,506	1,537	18,212	1,538	.....
318	3,099	5,412	1,330	15,292	1,340	2,521
158	4,663	8,036	1,976	23,014	1,978	3,718
1,022	4,880	7,703	2,172	17,454	.....	.....
728	.....	10,795	2,281	28,009	2,130	.....
1,239	.....	.....	1,582	18,839	1,559	2,987
101	3,945	6,629	1,756	18,485	1,757	3,149
800	4,563	7,808	1,856	21,566	1,869	3,524
55	3,954	6,625	1,628	18,838	1,629	3,075
6	4,594	7,779	1,701	23,418	1,704	3,286
579	3,689	6,256	1,544	18,809	1,549	3,028
319	3,782	6,447	1,499	18,833	1,501	2,952
51	.....	.....	.....	16,925	1,478	2,773
23	.....	6,739	.....	19,054	1,514	.....
1,164	.....	.....	2,584	20,623	2,583	.....
1,001	.....	.....	1,586	.....	.....	.....
147	.....	6,739	1,691	18,096	1,653	3,102
823	4,301	7,304	1,672	20,903	1,673	3,300
82	.....	.....	.....	19,344	1,717	3,154
	Buell, Wm.....					
	Barry, M. & Co.,					
	Ball, J. P.,					
	Burrell, Traxton B.,					
	Cady & Butler,					
	Church, Richard,					
	Clark & Learned,					
	Charlick, Oliver,					
	Chamberlain, C. T. & Co.,					
	Chamberlain & Bradley,					
	Colton & Aikin,					
	Clarke, Orville,					
	Clyde, H. A.,					
	Corbet, M.,					
	Daniels & Douglass,					
	Ely, L. D.,					
	Grant, L. A. G. B.,					

245	Hughes, J. B.,	4,353	7,385	1,637	20,956	1,641	3,306
281	Hinds & Copeland,	4,197		1,756			
691	Hart & Spear,				18,243	1,741	3,130
189	Harrington, N. A.,			1,434	18,187	1,451	2,873
173	Hard, Gideon, & Co.,	3,293	5,972	1,374	17,928	1,527	2,781
657	Holden, S. C. & Co.,		6,276	1,428			
13	Kingsley & James,				21,013	1,885	3,089
480	King, J. B. & Co.,			1,596	19,690	1,606	3,154
914	Lyman, Tho's A. E. & Co.,				20,897	1,897	
708	Lewis, W. S. & Co.,	2,866	4,877				
346	Milliner, J. P. & Co.,	3,740					
1,157	Mills, H. P. & Co.,		6,384	1,447	18,613	1,448	2,746
87	Phillips, L. H.,		6,231		16,639	1,617	
556	Pierce, S. S. & Co.,				17,823		
528	Pringle, Benj.,			1,291	17,126	1,292	2,634
574	Peck, L. J.,				16,916		
589	Ryan & Swan,	4,559	6,189	1,799	16,680	1,776	2,990
1,127	Ross, M. L.,	3,658					
359	Reid & St. John,	3,144	5,340	1,186			
812	Richardson, D. H.,				22,942	1,745	
996	Storrs, H. E. & Co.,	3,957	6,782	1,436	18,205	1,437	2,871
660	Soper & Field,			1,400	17,932	1,408	2,780
605	Thomson, J. B.,	3,297	5,658				
368	Thompson, C. B.,	3,613					
559	Turner, Otis,	4,233	7,275	1,581	29,310	1,509	3,013
58	Vernam, John & Co.,	4,237	7,170	1,637	18,880	1,637	3,089

CULVERTS ON SECTIONS (CONTINUED.)

No. of Proposition.	NAMES OF BIDDERS.	No. 293.	No. 294.	No. 295.	No. 296.	No. 297.	No. 298.	No. 299.	No. 300.	No. 301.	No. 302.	No. 303.	No. 304.
	Engineers' Estimate,	\$1,474	\$4,395	\$3,274	\$2,743	\$1,308	\$654						
958	Barton, D. R. & Co.	2,070	6,085	4,035	3,411	2,512	1,377						
818	Barton, D. R. & Co.,	1,428	4,390	2,877	2,355	1,520	908						
158	.....	2,056	6,360	4,218	2,575	2,279	1,289						
1,239	.....	1,629	.....	3,143	2,838	1,875	1,006						
51	.....	1,552	4,839	2,603	2,671	1,812	1,011						
800	Hard,	1,938	6,177	3,992	3,838	2,618	1,277						
55	Hard,	1,700	5,228	3,481	2,925	1,994	1,140						
101	Hard,	1,824	5,312	3,572	3,032	2,038	1,216						
579	Hard,	1,610	.....	.....	2,756	1,827	990						
6	C. T. & Co.,	1,766	.....	4,247	3,082	2,590	1,206						
319	.....	1,563	5,134	3,763	2,894	1,860	1,006						
615	D. & Co., .....	.....	.....	.....	.....	2,026	.....					
147	Engliss,	1,761	.....	3,582	3,023	1,788	1,016						
828	.....	1,749	5,787	3,735	3,119	2,300	1,145						
82	G. B., .....	.....	5,434	3,603	.....	.....	.....			
1,212	.....	.....	.....	3,148	.....	.....	.....			
189	M. A.,	1,550	5,079	.....	.....	.....	.....		
245	Hughes, J. B.,	1,700	5,785	3,685	3,068	2,422	1,148						
173	Hard, Gideon, & Co.,	1,460	5,160	3,386	.....	.....	.....			
281	Hinds, F. & Co.,	1,830	5,537	3,580	8,042	.....	.....				
394	Hopkins & Wicks, .....	.....	.....	.....	.....	.....	924						

CULVERTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 303.				No. 302.				No. 304.				
		Engineers' estimate,												
480	King, J. B. & Co.,					3,159								\$654
1,157	Mills, H. P. & Co.,					2,635				1,917				
523	Pringle, Benj.,													
589	Ryan & Swan,													959
359	Reid, E. S. & Co.,													911
660	Soper & Field,													
996	Storrs, H. E. & Co.,													
256	Stage, J. N.,													
559	Turner, Otis,													
58	Vernam, John & Co.,													
545	Wagner & Levings,													
840	Wood, A. D. & Co.,													
119	Wright, J. T. & Co.,													
1,175	Williams & Moore,													

CULVERTS ON SECTIONS—(CONTINUED.)

No. of propo- sition.	No. 307.	No. 308.	No. 309.	No. 311.	No. 312.
	\$654	\$654	\$654	\$1,959	\$654
958	1,377	1,377	1,377	8,326	1,420
318	800	872	890	5,433	825
158	1,289	1,289	1,289	8,526	1,289
319	967	1,014	947	7,115	947
354	.....	.....	993	7,523	993
51	1,011	1,011	1,011	6,493	1,011
23	.....	.....	.....	7,051	973
1,164	.....	.....	1,774	7,459	.....
800	1,277	1,277	1,277	8,470	1,277
105	.....	.....	.....	8,018	.....
55	1,140	1,140	1,140	7,247	1,140
101	1,216	1,216	1,216	7,089	1,216
579	990	990	990	7,042	990
6	1,206	1,206	1,206	.....	1,206
319	1,006	1,006	1,006	7,126	1,006
615	981	979	981	.....	.....
147	1,016	1,016	1,016	.....	1,016
613	735	.....	.....	.....	.....
608	729	729	729	.....	.....
823	1,145	1,145	1,145	8,201	1,145
82	.....	.....	.....	7,493	.....
	Ely, L. D.	1,145	.....	.....	.....
	Grant, L. A. G. B.	.....	.....	.....	.....

CULVERTS ON SECTION—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 305.	No. 307.	No. 308.	No. 309.	No. 311.	No. 312.
		\$654	\$654	\$654	\$654	\$4,959	\$654
1,212	Engineers' estimate,.....						
189	Goodrich, H.....	.....	968	968	.....	.....	.....
215	Harrington, M. A.....	950	950	.....	.....	6,845	.....
173	Hughes, J. B.....	1,148	1,148	1,148	1,148	8,326	1,148
281	Hard, Gideon & Co.....	.....	.....	911	839	.....	.....
394	Hinds, F. & Co.....	1,250	.....	.....	.....	7,121	1,257
691	Hopkins & Weeks.....	908	889	.....	.....	7,153	.....
412	Hart & Spear.....	.....	1,295	1,295	1,295	.....	.....
70	Hilton, J. M. K.....	.....	.....	.....	.....	.....	918
72	Hunter & Collins.....	.....	.....	.....	.....	.....	951
480	Jackson, James.....	.....	1,216	.....	.....	6,745	.....
565	King, J. B. & Co.....	959	.....	.....	.....	7,884	.....
1,157	Kneeland, S. W.....	.....	.....	.....	.....	5,296	.....
528	Mills, H. P. & Co.....	911	911	911	911	.....	733
87	Pringle, Benjamin.....	.....	852	852	852	6,430	911
589	Phillips, S. H.....	.....	.....	.....	.....	6,539	852
660	Ryan & Swan.....	1,458	1,443	.....	.....	.....	1,051
996	Soper & Field.....	778	.....	.....	.....	.....	.....
236	Storrs, H. E. & Co.....	960	960	960	960	6,955	960
559	Stage, J. N.....	736	.....	.....	.....	.....	.....
619	Turner, Otis.....	1,026	1,026	1,026	1,026	7,508	1,026
	Tousley O. & Co.....	.....	775	775	775	.....	765

63	Vernam, J. & Co.	1,148	1,148	1,148	1,148	7,516	1,148
545	Wagner & Levings	1,110	1,110	1,110	1,110	7,797	1,110
840	Wood, A. D. & Co.					6,610	1,212
119	Wright, J. T. & Co.	1,277	1,277	1,277	1,277	8,470	1,276
1,175	Williams & Moore	966	966	966	966	6,449	966

CULVERTS ON SECTIONS--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Sec. No. 313.		Sec. No. 314.	
	Engineers' estimate,	\$654		\$900	
958	Barton, D. R. & Co.....	1,420		1,786	
318	Butler, O. & Co.	876		1,145	
158	Buell, William.....	1,289		1,660	
1,239	Burrell, T.....	947		1,265	
23	Clarke, Orville.....	973		1,302	
51	Colter & Alken.....	1,011		1,316	
800	Church, R.....	1,277		1,620	
55	Clarke & Learned.....	1,140		1,459	
101	Cady, H. & Co.....	1,216		1,524	
579	Chamberlain, C. T. & Co.....	989		1,301	
6	Charlick, O.....	1,206		1,555	
319	Chamberlain & Bradley.....	1,006		1,322	
147	Daniels & Douglass	1,016		1,307	
608	Danols, C. A.....	904		1,143	
823	Ely, L. D.....	1,145		1,499	
82	Grant, L. A. G. B.....	.....		1,422	
189	Harrington, M. A.	925		1,278	
245	Hughes, J. B.....	1,148		1,498	
281	Hinds, F. & Co.....	1,257		1,581	
394	Hopkins & Weeks.....	.....		1,211	
70	Hunter & Collins.....	.....		.....

733	Hewes, H. N.....	.....	1,527
480	King, J. B. & Co.....	.....	1,552
565	Kneeland S. W.....	733	969
1,157	Mills, H. P. & Co.....	911	1,190
528	Pringle, Benjamin.....	852	1,138
87	Phillips, L. H.....	1,051	1,324
589	Ryan & Swan.....	.....	1,722
996	Storrs, H. E. & Co.....	996	1,262
559	Turner, Otis.....	1,026	1,344
619	Tousley, O. & Co.....	775	1,040
58	Vernam, John & Co.....	1,148	1,470
545	Wagner & Levings.....	1,110	1,437
840	Wood, A. D. & Co.....	1,212	1,521
119	Wright, J. T. & Co.....	1,277	1,620
1,175	Williams & Moore.....	966	1,255

WASTE WEIRS, ON SECTIONS.

590

[Assembly]

1,021	Barry, M. & Co.,	1,570	1,287	1,386	1,335	824	.....	824	.....
751	Bishop, Edson,	1,229	1,127	1,267	1,296	845	.....	845	.....
118	Barney, V. G. & Co., .....	.....	.....	.....	1,115	.....	.....	.....	.....
590	Chamberlain & Edgerton,	1,460	1,387	1,480	1,392	784	.....	784	.....
667	Caswell, N. B.,	1,523	1,460	1,540	1,456	.....	.....	.....	.....
323	Chamberlain & Bradley,	1,484	1,407	1,505	1,402	762	.....	762	.....
489	Clarke, J. W.,	1,180	1,124	1,195	1,120	637	.....	637	.....
401	Clarke, P. W.,	1,205	1,150	1,226	1,147	657	.....	657	.....
427	Clarke, Ethan,	1,260	1,197	1,277	1,189	688	.....	688	.....
107	Cady, H. & Co.,	1,987	1,890	2,011	1,894	1,114	.....	1,114	.....
250	Goodrich, J. W.,	Informal.	.....	.....	.....	.....	.....	.....	.....
241	Hughes, J. B.,	1,445	1,364	1,464	1,370	761	.....	761	.....
277	Kenyon, Daniel, .....	.....	.....	.....	1,204	.....	.....	.....	.....
639	Layton & Rogers, .....	.....	1,467	.....	.....	.....	.....	.....	.....
972	Law, George,	1,541	1,471	1,560	1,467	847	.....	847	.....
872	Leach, Jacob & Co., .....	.....	1,355	1,474	1,351	.....	.....	.....	.....
494	Lamoreaux, A. O., .....	.....	.....	1,635	1,258	.....	.....	.....	.....
1,101	Mitchell, Calvin,	1,606	1,514	.....	.....	.....	.....	.....	.....
112	Peck, L. J.,	Informal.	.....	.....	.....	658	.....	658	.....
557	Pierce, Warner & Co., .....	.....	.....	.....	.....	622	.....	622	.....
358	Reld, E. S. Co.,	1,185	1,126	1,270	1,180	.....	.....	.....	.....

821	Smith & Ely, ..	1,536	1,466	1,555	1,461	844	844
583	Seleye, Lewis., ..	.....	.....	.....	.....	628	628
237	Stage, I. N., ..	1,160	.....	.....	.....	.....	.....
270	Voorhies, Wm., ..	1,466	1,175	1,294	1,220	.....	.....
504	Wagner, C. & Co., ..	1,451	1,381	1,470	1,377	764	764
1,072	Williams, Geo. & Co., ..	1,504	1,416	1,528	1,411	850	851
682	Williams, A. B. & Co., ..	.....	1,292	1,364	.....	.....	.....

WASTE WEIRS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 266.	No. 275.	No. 279.	No. 300.	No. 311.	Id Line. No. 291.
	Engineers' estimate,	\$1,110	\$1,110	\$1,110	\$1,110	\$1,110	\$1,110
1,021	Barry, M. & Co.,	1,351	1,324	1,351	1,351	.....	.....
316	Butler, Jr. O. & Co.,	996	996	1,012	974	994	994
596	Bell, J. L.,	1,312	1,344	.....	.....	.....	.....
323	Chamberlain, C. T. & Co.,	1,405	1,395	1,405	1,405	1,405	1,405
580	Chamberlain, C. T. & Co.,	1,394	1,394	1,404	1,404	1,405	1,405
107	Cady, H. & Co.,	1,909	1,909	1,909	1,909	1,684	.....
427	Clarke, E.,	1,202	1,202	1,202	1,202	1,202	.....
489	Clarke, J. W.,	1,119	1,119	1,119	1,119	1,119	.....
401	Clarke, P. W.,	1,102	1,151	1,151	1,151	1,151	.....
6	Charliff, O.,	1,480	1,480	1,480	1,480	1,480	1,480
103	Collins, W. P., .....	.....	.....	.....	.....	1,493	.....
22	Clarke & Hill, .....	.....	.....	.....	.....	1,458	.....
241	Hughes, J. B.,	1,392	1,392	1,392	1,392	1,392	1,392
600	Hardy, Jas.,	1,312	1,341	.....	.....	.....	.....
1,152	Hudnutt, J. O. & Co.,	1,151	.....	.....	.....	.....	.....
537	Hard, Gideon, .....	.....	.....	1,066	.....	.....	.....
173	Hard & Tousley, .....	.....	.....	.....	1,256	.....	.....
415	Hilton, J. M. K., .....	.....	.....	.....	.....	1,031	.....
246	Jenkinson, J. & Co.,	1,241	1,365	.....	.....	.....	.....
567	Kneeland, S. W.,	1,070	.....	.....	.....	.....	.....
112	Peck, L. J.,	1,199	1,199	1,199	1,199	1,199	1,200

358	Reid, E. S. & Co.,	1,179	1,173	1,173	1,125	1,230	1,163
541	Ryan, John & Co.,	1,693	1,693	1,688	.....	1,694	1,693
821	Smith & Ely,	1,464	1,464	1,464	1,464	1,464	.....
583	Seelye, Lewis,	1,129	.....	.....	.....	.....	.....
617	Soper, Field & Co., .....	.....	.....	.....	.....	1,596	1,163
606	Thomson, J. R.,	1,059	1,030	.....	.....	.....	.....
504	..... & Co.,	1,395	1,395	1,390	1,390	1,394	1,394
1,072	Williams, Geo. & Co.,	1,439	1,439	1,439	1,439	1,439	1,439
221	Wilder, A., .....	.....	.....	1,063	.....	.....	.....

BRIDGE ABUTMENTS,—From Section 207 to 314.

No. of proposition.	NAMES OF BIDDERS.	No. 207.					No. 209.					No. 210.—1.					No. 210.—2.					No. 212.—1.				
		No. 207.					No. 208.					No. 210.—1.					No. 210.—2.					No. 212.—1.				
	Engineers' estimate,	\$1,609					\$1,605					\$1,619					\$1,377					\$1,744				
680	Andrus, S., .....	.....					.....					.....					.....					.....
762	Brintnall, H. & Co.,	1,516					1,502					1,525					1,300					1,428				
1,020	Barry, M. & Co.,	1,538					1,533					1,550					1,333					1,687				
1,041	Birchard, B. & Co.,	1,420					1,416					1,428					1,211					1,707				
371	Clarke, J. W.,	3,223					3,219					3,232					3,014					1,528				
133	Clark, E.,	1,563					1,559					1,573					1,388					1,698				
650	Cady & Butler,	1,662					1,658					1,672					1,426					1,797				
669	Caswell, N. B.,	1,644					1,640					1,653					1,409					1,765				
548	Clark, P. W.,	1,500					1,497					1,510					1,283					1,629				
869	Candee, Reed & Co.,	1,471					1,468					1,478					1,069					1,559				
798	Church, R.,	1,561					1,558					1,570					1,336					1,683				
943	Chase, L.,	1,298					1,295					1,305					1,111					1,386				
322	Chamberlain & Bradley,	1,236					1,232					1,245					1,058					1,357				
581	Chamberlain & Edgerton,	1,284					1,280					1,292					1,098					1,405				
294	Dodge, J. A. & D. L.,	1,229					1,210					1,221					.....					1,331				
417	Ennis, R.,	1,621					1,652					1,669					1,430					1,743				
306	Ennis, W. H. & Co.,	1,573					1,568					1,531					1,302					1,656				
409	Ellicott, J. & Co.,	1,611					1,506					1,624					1,390					1,781				
453	Field, F. & Co.,	1,453					1,449					1,461					1,253					1,267				
713	Foster, C. & Co., .....	.....					.....					.....					.....					1,691				
47	Grant, L. A. G. B.,	1,702					1,697					1,715					1,467					1,879				

251	Goodrich, J. W.,	1,306	1,300	1,311	1,094	1,123	1,457
1,089	Houghtaling, A.,	1,749	1,673	1,656	1,310	1,338	1,706
692	Hart, J. N. & Co.,	1,864	1,861	1,872	.....	.....	.....
242	Hughes, J. B.,	1,375	1,371	1,384	1,144	1,177	1,503
968	Hall, I.,	1,082	1,080	1,088	925	946	1,163
1,226	Kingsbury, F. H., .....	.....	.....	1,548	1,274	1,323	1,722
375	Leach, J. & Co.,	1,638	1,568	.....	.....	.....	.....
465	Lyman, A.,	1,856	1,851	1,867	1,549	1,589	2,011
975	Law, Geo.,	1,823	1,820	1,832	1,531	1,562	1,945
892	Lee, J. B. & Co.,	1,724	1,720	1,734	1,442	1,477	1,859
635	Layton, J. & Co., .....	.....	.....	.....	.....	.....	1,753
1,103	Mitchell, C.,	1,788	1,773	1,778	1,500	1,531	1,902
1,154	Mills, H. P. & Co.,	1,434	1,431	1,441	1,196	1,222	1,535
1,060	McGovern, T. & Co.,	1,937	1,931	1,952	1,606	1,659	2,142
460	Miller, J., .....	.....	.....	1,650	1,060	1,412	1,838
1,050	McCartney, H. & Co.,	1,275	1,272	1,282	1,064	1,086	1,369
420	Nellis, R. S.,	1,403	1,299	1,370	1,116	1,150	1,418
1,069	Nichols, J. H.,	1,593	1,588	1,605	1,232	1,375	1,762
573	Peck, L. J.,	1,233	1,229	1,243	1,021	1,055	1,368
341	Reynolds, A.,	1,251	1,248	1,259	1,046	1,073	1,853
1,168	Severance, H. M.,	1,425	1,422	1,433	1,190	1,219	1,540
239	Stage, J. N.,	1,633	1,629	1,643	.....	.....	.....
1,007	Smith, P.,	1,646	1,642	1,656	1,377	1,412	1,781
269	Voorhies, W.,	1,386	1,382	1,394	1,157	1,184	1,494
1,054	Van Slyck, A. & Co.,	1,546	1,543	1,553	1,339	1,364	.....
1,197	Williams, G. & Co.,	1,641	1,637	1,651	1,370	1,405	1,776
547	Wagner, D. & Co.,	1,389	1,335	1,349	1,112	1,147	1,564

BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	212.—No. 2.		213.—No. 1.		213.—No. 2.		No. 214.		No. 215.		216.—No. 1.	
		Engineers' estimate,		\$1,604		\$1,337		\$1,377		\$1,316		\$1,611	
680	Andrus, S.,	1,323		. . . . .		. . . . .		. . . . .		. . . . .		1,425	
461	Akenhead, W. & R., . . . . .	. . . . .		. . . . .		. . . . .		. . . . .		. . . . .		1,515	
....	Akenhead, F. & Co., . . . . .	. . . . .		. . . . .		. . . . .		. . . . .		. . . . .		2,062	
762	Brintnall, H. & Co.,	1,511		1,264		1,300		1,245		1,300		1,518	
1,020	Barry, M. & Co.,	1,442		1,283		1,333		1,257		1,333		1,540	
1,041	Birchard, B. & Co.,	1,416		1,179		1,211		1,162		1,211		1,421	
371.	Clark, J. W.,	3,218		2,978		3,014		2,959		3,014		3,224	
133	Clark, E.,	1,558		1,296		1,338		1,277		1,338		1,565	
650	Cady & Butler,	1,657		1,386		1,416		1,365		1,426		1,709	
669	Caswell, N. B.,	1,639		1,373		1,409		1,354		1,409		1,645	
548	Clark, P. W.,	1,496		1,245		1,283		1,225		1,283		1,502	
969	Candee, Reed & Co.,	1,468		1,229		1,255		1,260		1,255		1,472	
798	Church, R.,	1,564		1,300		1,348		1,281		1,336		1,563	
943	Chase, L.,	1,295		1,085		1,111		1,072		1,111		1,300	
322	Chamberlain, C. T. & Co.,	1,231		1,022		1,058		1,003		1,058		1,237	
581	Chamberlain, C. T. & Co.,	1,279		1,062		1,098		1,043		1,098		1,285	
294	Dodge, J. A. & D. L.,	1,219		1,098		1,130		1,081		1,130		1,315	
417	Ennis, R.,	1,617		1,344		1,380		1,372		1,389		1,599	
306	Ennis, W. H. & Co.,	1,516		. . . . .		. . . . .		. . . . .		. . . . .		. . . . .
409	Ellicott, J. & Co.,	1,605		1,340		1,390		1,313		1,390		1,614	
453	Field, F. & Co.,	1,448		1,219		1,258		1,202		1,253		1,454	

713	Foster, C. & Co.,	1,516	1,295	1,845	1,279	1,370	1,614
47	Grant, L. A. G. B.,	1,690	1,417	1,467	1,390	1,467	1,705
251	Goodrich, J. W.,	1,345	1,129	1,161	1,812	1,161	1,396
1,089	Houghtaling, A.,	1,594	1,341	1,377	1,429	1,481	1,722
242	Hughes, J. B.,	1,370	1,139	1,177	1,119	1,177	1,377
968	Hall, I.,	1,079	922	946	910	946	1,083
1,226	Kingsbury, F. H.,	1,527					
465	Lyman, A.,	1,828	1,543	1,589	1,505	1,576	1,844
375	Leach, J. & Co.,				1,267	1,328	1,549
975	Law, Geo.,	1,819	1,526	1,512	1,507	1,562	1,825
892	Lee, J. B. & Co.,	1,719	1,437	1,477	1,416	1,477	1,726
635	Layton, J. & Co.,	1,624	1,325	1,363	1,355	1,413	
1,103	Mitchell, C.,	719	1,459	1,483	1,477	1,520	1,761
1,063	McGovern, T. & Co.,	1,930					
1,154	Mills, H. P. & Co.,	1,430	1,192	1,222	1,177	1,222	1,435
1,050	McCartney, H. & Co.,	1,270	1,058	1,086	1,121	1,163	1,367
460	Miller, J.,	1,628					
838	Marsh, W. N.,				1,258	1,319	1,542
420	Nellis, R. S.,	1,313	1,226	1,169	1,093	1,139	1,486
1,069	Nichols, J. H.,	1,587	1,325	1,395	1,299	1,375	1,595
573	Peck, L. J.,	1,228	1,015	1,055	994	1,055	1,235
341	Reynolds, A.,	1,248	1,043	1,073	1,027	1,073	1,253
881	Richman, T. & Co.,		1,476	1,526	1,450	1,434	1,662
1,168	Severance, H. M.,	1,421	1,184	1,189	1,167	1,219	1,427
1,007	Smith, P. & Co.,	1,641	1,372	1,412	1,351	1,412	1,648
269	Voorhies, W.,	1,382	1,152	1,184	1,136	1,184	1,387

BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 212.	213.—No. 1.	213.—No. 2.	No. 214.	No. 215.	216.—No. 2.
	Engineers' estimate,.....	\$1,604	\$1,337	\$1,377	\$1,316	\$1,377	\$1,611
1,054	Van Slock A & Co.,.....	.....	1,336	1,364	1,321	1,364	1,547
1,197	& Co.,.....	1,636	1,365	1,405	1,344	1,405	1,643
547	Wagner, D. & Co.,.....	1,334	1,107	1,147	1,086	1,147	1,341
684	Williams, A. B. & Co.,.....	.....	.....	.....	.....	1,223	1,495

BRIDGE ABUTMENTS—From Sections 216 to 218.

No. of proposition.	NAMES OF BIDDERS.	No. 2—216.	No. 2—216.	No. 1—217.	No. 2—217.	No. 1—218.	No. 2—218.
	Engineers' estimate,.....	\$1,612	\$1,590	\$1,403	\$1,619	\$1,401	\$1,629
680	Andrus, S. & Co.....	1,426	1,409	1,292	1,482	1,291	1,490
461	Akenhead, W. & R. A.....	1,516	1,494	1,333	1,523	1,331	1,533
671	Akenhead, T. & Co.....	2,067	1,957	1,937	2,103	1,927	2,152
762	Brintnall, H.....	1,519	1,499	1,324	1,525	1,322	1,534
1,020	Barry, M. & Co.....	1,542	1,514	1,366	1,550	1,363	1,568
1,041	Birchard, J. & Co.....	1,422	1,404	1,232	1,428	1,230	1,436
371	Clark, J. W.....	3,225	3,205	3,037	2,232	3,035	3,241
133	.....	1,566	1,543	1,364	1,573	1,362	1,583
650	.....	1,710	1,688	1,491	1,717	1,489	1,727
669	.....	1,646	1,627	1,432	1,653	1,430	1,662
648	.....	1,503	1,482	1,308	1,510	1,306	1,519
869	& Co.....	1,473	1,459	1,272	1,478	1,271	1,484
798	.....	1,564	1,544	1,359	1,570	1,358	1,579
943	.....	1,300	1,286	1,198	1,305	1,127	1,311
322	C. T. & Co.....	1,238	1,219	1,082	1,245	1,080	1,254
581	C. T. & Co.....	1,286	1,266	1,122	1,292	1,120	1,301
294	D. L.....	1,316	1,299	1,151	1,322	1,151	1,330
417	.....	1,600	1,579	1,371	1,589	1,389	1,617
409	.....	1,615	1,588	1,422	1,624	1,420	1,636
453	.....	1,455	1,437	1,276	1,461	1,274	1,470
713	.....	1,591	1,584	1,505	1,610	1,385	1,562

BRIDGE ABUTMENTS—(CONTINUED.)

No. of propositions.	NAMES OF BIDDERS.	No. 2—216.	No. 3—216.	No. 1—217.	No. 2—217.	No. 1—218.	No. 2—218.
		Engineers' estimate,.....	\$1,612	\$1,590	\$1,403	\$1,619	\$1,401
47	Grant, L. A. G. B.....	1,706	1,679	1,499	1,715	1,497	1,727
251	Goodrich, J. W.....	1,397	1,379	1,216	1,402	1,137	1,314
1,089	Houghtaling, A.....	1,723	1,704	1,439	1,654	1,437	1,661
242	Hughes, J. B.....	1,378	1,357	1,202	1,384	1,201	1,394
968	Hall, J.....	1,084	1,077	986	1,088	961	1,094
496	Lamoreaux, A. O.....	.....	.....	.....	.....	1,268	1,478
375	Leach, J. & Co.....	1,550	1,619	.....	.....	.....	1,658
465	Lyman, A.....	1,845	1,834	1,619	1,867	1,629	1,879
975	Law, G.....	1,826	1,806	1,586	1,832	1,584	1,841
892	Lee, J. B. & Co.....	1,727	1,705	1,503	1,734	1,501	1,744
1,103	Mitchell, C.....	1,762	1,747	1,541	1,768	1,559	1,795
1,154	Mills, H. P. & Co.....	1,436	1,419	1,242	1,441	1,240	1,449
1,050	McCartney, H. & Co.....	1,368	1,352	1,182	1,373	1,180	1,380
838	Marsh, W. N.....	1,543	1,521	1,345	1,550	1,343	1,560
407	Martindale, J. H. & Co.....	.....	.....	1,242	1,417	1,340	1,529
1,060	McGovern, T. & Co.....	.....	.....	1,698	1,952	1,695	.....
420	Nellis, R. S.....	1,563	1,543	1,219	1,557	1,254	1,695
1,069	Nichols, J. H.....	1,597	1,569	1,408	1,605	1,405	1,618
573	Peck, L. J.....	1,236	1,214	1,081	1,243	1,079	1,253
341	Reynolds, A.....	1,254	1,237	1,208	1,395	1,146	1,403
881	Richman, T. J. & Co.....	1,663	1,641	1,459	1,670	1,357	1,680

1,168	Severance, H. M.	1,427	1,409	1,241	1,433	1,240	1,442
1,007	Smith, P. & Co	1,649	1,627	1,438	1,655	1,436	1,666
269	Vorhies, W	1,388	1,369	.....	1,392	1,202	1,402
1,054	Van Slyck, A. & Co	1,548	1,532	1,382	1,553	1,380	1,560
92	Van Valkenburgh, D. A. & Co	.....	1,420	1,270	1,456	1,268	1,469
1,197	Williams G. & Co	1,644	1,645	1,464	1,631	1,462	1,693
547	Wagner, D. & Co	1,342	1,320	1,173	1,349	1,171	1,359
684	Williams, A. B. & Co	1,486	1,469	1,333	1,509	1,290	1,505

BRIDGE ABUTMENTS—(CONTINUED.)

No. of position.	NAMES OF BIDDERS.	No. 3.—218.	No. 4.—218.	No. 1.—219.	No. 2.—219.	No. 3.—219.	No. 1.—228.
		\$1,303	\$1,529	\$1,606	\$1,995	\$1,716	\$1,599
	Engineers' estimate,						
680	Andrews, S. & Co.,	1,211	1,410	.....	.....	.....	.....
461	Akenhead, W. & R. A.,	1,231	1,433	.....	.....	.....	1,503
671	Akenhead, T. & Co.,	1,427	1,652	.....	.....	.....	.....
762	Brintnall, H.,	1,232	1,444	1,509	1,481	1,612	1,507
1,020	Barry, M. & Co.,	1,238	1,438	1,528	1,489	1,672	1,525
1,041	Birchard, J. & Co.,	1,150	1,356	1,413	1,389	1,505	1,412
371	Clark, J. W.,	2,945	3,151	3,215	3,188	3,319	3,214
133	Clark, E.,	1,262	1,483	1,555	1,525	1,671	1,553
650	Cady & Butler,	1,389	1,627	1,699	1,668	1,814	1,743
669	Caswell, N. B.,	1,340	1,572	1,630	1,609	1,740	1,635
548	Clark, P. W.,	1,211	1,424	1,493	1,464	1,602	1,491
869	Candee, Reed & Co.,	1,206	1,419	1,466	1,445	1,541	1,465
798	Church, R.,	1,268	1,489	1,554	1,526	1,659	1,552
943	Chase, L.,	1,062	1,246	1,298	1,273	1,368	1,283
323	Chamberlain, C. T. & Co.,	990	1,164	1,228	1,201	1,382	1,227
581	Chamberlain, C. T. & Co.,	1,080	1,211	1,276	1,248	1,380	1,274
294	Dodge, J. A. & D. L.,	1,069	1,250	1,307	1,283	1,400	1,306
417	Ennis, R.,	1,289	1,517	.....	.....	.....	1,572
409	Ellicott, J.,	1,295	1,511	1,601	1,563	1,645	1,599
453	Field, F. & Co.,	1,189	1,372	1,446	1,420	1,544	1,444
713	Foster, O. & Co.,	1,260	1,472	1,542	1,488	1,671	

47	Grant, L. A. G. B.,	1,372	1,602	1,692	1,654	1,836	1,690
251	Goodrich, J. W.,	1,057	1,234	1,297	1,272	1,389	1,381
1,089	Houghtaling, A.,	1,367	1,591	.....	.....	.....	.....
242	Hughes, J. B.,	1,165	1,299	1,367	1,338	1,417	1,365
968	Hall, J.,	901	1,034	1,077	1,059	1,146	1,096
375	Leach, J. & Co.,	1,211	1,467	.....	.....	.....	1,537
465	Lyman, A.,	1,458	1,764	1,847	1,811	1,979	1,844
975	Law, G.,	1,494	1,751	1,816	1,788	1,910	1,814
892	Lee, J. B. & Co.,	1,401	1,644	1,717	1,685	1,831	1,714
1,103	Mitchell, C.,	1,469	1,705	.....	.....	.....	.....
1,154	Mills, H. P. & Co.,	1,165	1,374	1,428	1,404	1,514	1,427
1,050	McCartney, H. & Co.,	1,110	1,310	1,360	1,339	1,441	1,450
838	Marsh, W. N.,	1,243	1,466	.....	.....	.....	1,530
407	Martindale, J. H. & Co.,	1,215	1,304	.....	.....	.....	.....
65	Mirick, J. & H.,	.....	.....	1,605	1,566	1,749	1,602
397	Moore S.	.....	.....	.....	.....	.....	1,475
420	.....	1,179	1,391	.....	.....	.....	.....
1,069	.....	1,280	1,485	1,583	1,544	1,726	1,580
573	.....	978	1,153	1,225	1,194	1,340	1,223
341	.....	1,131	1,228	1,382	1,354	1,468	1,380
881	.....	1,357	1,586	1,652	1,621	1,767	1,650
598	.....	.....	.....	.....	.....	.....	1,639
1,168	.....	1,155	1,357	1,418	1,392	1,516	1,416
1,007	Smith, P. & Co.,	1,336	1,566	1,638	1,007	1,753	1,628
269	Voorhies, W.,	1,124	1,322	1,379	1,355	1,471	1,378
1,054	Van Slyck, A. & Co.,	1,310	1,490	.....	.....	.....	.....

BRIDGE ABUTMENTS--(CONTINUED.)

No. of pro- position.	NAMES OF BIDDERS.	No. 3--218.	No. 4--218.	No. 1--219.	No. 2--219.	No. 3--219.	No. 1--220.
		\$1,303	\$1,529	\$1,606	\$1,995	\$1,716	\$1,599
92	D. A. & Co.,	1,143	1,344	.....	.....	.....	.....
1,197	"	1,337	1,561	1,658	1,620	1,802	1,656
547	Wagner, D. & Co.,	1,071	1,259	1,331	1,300	1,446	1,329
684	Williams, A. B. & Co.,	1,210	1,425	1,473	1,449	1,559	1,393

BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 2.—228.		No. 3.—228.		Sec. 229.		No. 1.—231.		No. 2.—231.		Sec. 232.	
		\$1,609		\$1,377		\$1,631		\$1,778		\$1,819		\$1,631	
461	Akenhead, W. & R.,.....	1,513		1,307		1,535		1,682		1,722		1,535	
629	Briggs, M. & Co.,.....	.....		1,005		1,194		1,304		1,335		1,194	
1,762	Brintnall, H. & Co.,.....	1,516		1,299		1,536		1,672		1,704		1,536	
1,041	Birchard, B. & Co.,.....	1,420		1,211		1,437		1,555		1,587		1,437	
1,022	Barry, M. & Co.,.....	1,538		1,333		1,565		1,749		1,800		1,565	
119	Barney V. G. & Co.,.....	.....		1,269		1,501		.....		1,591		1,437	
371	Clark, J. W.,.....	3,223		3,014		3,242		3,378		3,411		3,242	
133	Clark, E.,.....	1,563		1,338		1,585		1,732		1,773		1,585	
650	Cady & Butler,.....	1,753		1,503		1,775		1,921		1,962		1,775	
669	Caswell, N. B.,.....	1,644		1,409		1,663		1,799		1,832		1,663	
548	Clark, P. W.,.....	1,500		1,283		1,521		1,661		1,517		1,521	
869	Candee, Reed & Co.,.....	1,471		1,255		1,485		1,581		1,607		1,485	
798	Church, R.,.....	1,561		1,336		1,581		1,717		1,750		1,581	
943	Chase, L.,.....	1,298		1,111		1,312		1,408		1,434		1,312	
322	Chamberlain, C. T. & Co.,.....	1,236		1,058		1,255		1,391		1,424		1,255	
581	Chamberlain, C. T. & Co.,.....	1,283		1,098		1,303		1,439		1,472		1,303	
294	Dodge, J. L. & D. A.,.....	1,314		1,127		1,331		1,449		1,481		1,339	
419	Ennis, R.,.....	1,582		1,354		1,631		1,724		1,757		1,612	
409	Ellicott, J. & Co.,.....	1,611		1,390		1,586		1,822		1,873		1,639	
453	Field, F. & Co.,.....	1,453		1,253		1,471		1,596		1,631		1,471	
47	Grant, L. A. G. B.,.....	1,692		1,467		1,780		1,918		1,964		1,730	

BRIDGE ABOTMENTS—(Continued.)

No. of Expenditure.	NAMES	Engineers' estimate,
251	Goodrich, J. W.,...	1,850
242	Hughes, J. B.,....	1,816
968	Hall, S.,	1,724
924	Hunt, S. J.,	1,547
278	Kenyon, D.,	1,450
465	Lyman, A.,	1,457
975	Law, G.,	1,434
892	Lee, J. B. & Co.,	1,540
375	Leach, J. & Co.,	1,615
496	Lawrence A. O.,	1,484
1,050	Marson, W. N.,	1,593
1,154	Mirick, J. & H.,	1,233
838	Moore, S.,	1,388
65	Nichols, J. H.,	1,660
397	Peck, L. J.,	1,651
1,064	Reynolds, A.,	1,425
573	Richman, T. J. & Co.,	
341	Reilly, L. jr.,	
881	Soverance, H. M.,	
693		
1,168		

1,007	Smith, P. & Co.,	1,638	1,404	1,660	1,807	1,848	1,660
269	Voorhies, W.,	1,386	1,261	1,494	1,611	1,644	1,494
684	Williams, A. B. & Co.,	1,402	1,197	1,431	.....	.....	.....
1,197	Williams, G. & Co.,	1,678	1,432	1,696	1,879	1,930	1,696
547	Wagner, D. & Co.,	1,339	1,147	1,361	1,598	1,639	1,452

BR

No. of proposition.	NAMES OF BIDDERS.	No. 2.—234.				No. 1.—235.		No. 2.—236.		No. 237.	
		Engineers' estimate,.....				\$1,584		\$1,629		\$1,691	
461	Akenhead, W. & R. A.,.....	1,533	1,423	1,488	1,533	1,533	1,533	1,533	1,533	1,533	1,533
680	Andrus, S. & Co.,.....	1,415	1,327	1,379	1,415	1,415	1,415	1,415	1,415	1,415	1,415
1,041	Birchard, B. & Co.,.....	1,436	1,348	1,404	1,436	1,436	1,436	1,436	1,436	1,436	1,436
1,020	Barry, M. & Co.,.....	1,563	1,335	1,507	1,563	1,563	1,563	1,563	1,563	1,563	1,563
629	Briggs, M. & Co.,.....	1,193	1,114	1,159	1,193	1,193	1,193	1,193	1,193	1,193	1,193
762	Brintnall, H. & Co.,.....	1,534	1,435	1,494	1,534	1,534	1,534	1,534	1,534	1,534	1,534
119	Barney, V. G. & Co.,.....	1,415	.....	1,506	1,415	.....	.....	.....	.....	1,506	1,506
1,144	Boyce, Peter,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
371	Clark, J. W.,.....	3,241	3,142	3,200	3,241	3,241	3,241	3,241	3,241	3,241	3,241
183	Clark, E.,.....	1,581	1,473	1,449	1,581	1,581	1,581	1,581	1,581	1,581	1,581
798	Church, R.,.....	1,579	1,480	1,539	1,579	1,579	1,579	1,579	1,579	1,579	1,579
322	Chamberlain, C. T. & Co.,.....	1,254	1,155	1,213	1,254	1,254	1,254	1,254	1,254	1,254	1,254
650	Cady & Butler,.....	1,773	1,662	1,728	1,773	1,773	1,773	1,773	1,773	1,773	1,773
669	Caswell, N. B.,.....	1,662	1,563	1,621	1,662	1,662	1,662	1,662	1,662	1,662	1,662
548	Clark, P. W.,.....	1,519	1,415	1,477	1,519	1,519	1,519	1,519	1,519	1,519	1,519
943	Chase, L.,.....	1,311	1,240	1,282	1,311	1,311	1,311	1,311	1,311	1,311	1,311
581	Chamberlain, C. T. & Co.,.....	1,301	1,202	1,261	1,301	1,301	1,301	1,301	1,301	1,301	1,301
294	Dodge, J. A. & D. L.,.....	1,337	1,242	1,294	1,337	1,337	1,337	1,337	1,337	1,337	1,337
471	Ennis, R.,.....	1,605	1,515	1,567	1,605	1,605	1,605	1,605	1,605	1,605	1,605
409	Ellicott, J. & Co.,.....	1,636	1,499	1,580	1,636	1,636	1,636	1,636	1,636	1,636	1,636
206	Ennis, W. H. & Co.,.....	.....	1,411	1,476	.....	1,521	1,521	1,521	1,521	1,521	1,521

472	Ennis, E. & Co.,	1,470	1,376	1,607	1,657	1,649
453	Field, F. & Co.,	1,727	1,590	1,470	1,523	1,530
47	Grant, L. A. G. B.,	1,405	1,317	1,727	1,805	1,816
251	Geodrich, J. W.,	1,134	1,068	1,410	1,460	1,077
968	Hall, I.,	1,276	1,199	1,134	1,171	1,326
924	Hunt, S. J.,	1,394	1,289	1,276	1,319	1,462
242	Hughes, J. B.,	1,452	1,338	1,394	1,453	1,544
893	Hudnutt, J. O. & Co.,	1,422	1,339	1,508	1,562	1,478
278	Kenyon, D.,	1,744	1,634	1,494	1,545	1,473
496	Lamoureux, A. O.,	1,879	1,752	1,744	1,806	1,819
892	Lee, J. B. & Co.,	1,841	1,742	1,879	1,950	1,961
465	Lyman, A.,	1,567	1,457	1,842	1,897	1,905
975	Law, G.,	1,502	1,403	1,567	1,629	1,566
375	Leach, J. & Co.,	1,640	1,502	1,502	1,558	1,729
397	Moore, S.,	1,471	1,394	1,640	1,717	1,520
65	Mirick, J. & H.,	1,449	1,367	1,471	1,514	1,502
1,056	McCartney, H. & Co.,	1,450	1,450	1,449	1,496	1,502
1,154	Mills, H. P. & Co.,	1,618	1,480	1,618	1,695	1,707
838	Marsh, W. N.,	1,253	1,143	1,253	1,315	1,324
1,064	Nichols, J. H.,	1,676	1,539	1,676	1,754	1,426
573	Peck, L. J.,	1,484	1,413	1,484	1,524	1,675
986	Palmer, P. & Co.,	1,680	1,570	1,680	1,742	1,530
593	Reilly, L. Jr.,	1,658	1,548	1,294	1,720	1,751
869	Reed, Candee & Co.,					1,730
881	Richman, T. J. & Co.,					
1,007	Smith, P. & Co.,					

BRIDGE ABUTMENTS--(CONTINUED.)

No. of proposition	NAMES OF BIDDERS.	No. 233.	No. 1.--234.	No. 2.--234.	No. 1.--235.	No. 2.--235.	No. 237.
	Engineers' estimate,.....	\$1,629	\$1,519	\$1,584	\$1,629	\$1,691	\$1,700
1,168	Severance, H. M.,.....	1,442	1,348	1,406	1,442	1,495	1,502
269	Voorhies, W.,.....	1,493	1,405	1,457	1,493	1,542	1,550
547	Wagner, D. & Co.,.....	1,450	1,340	1,405	1,440	1,512	1,521
1,197	Williams, G. & Co.,.....	1,693	1,556	1,637	1,693	1,771	1,782

BRIDGE ABUTMENTS—(Continued.)

No. of propeller	No. of abutments	No. of abutments
1,041	1,041	1,041
1,020	1,020	1,020
629	629	629
752	752	752
119	119	119
1,144	1,144	1,144
1,136	1,136	1,136
44	44	44
371	371	371
133	133	133
798	798	798
822	822	822
581	581	581
650	650	650
669	669	669
548	548	548
943	943	943
869	869	869
294	294	294
472	472	472
409	409	409
Church, R.	1,269	1,358
Chamberlain, C. T. & Co.	992	1,080
Chamberlain, C. T. & Co.	1,032	1,120
Cady & Butler	1,429	1,528
Caswell, N. B.	1,342	1,440
Clark, P. W.	1,213	1,307
Chase, L.	1,063	1,124
Candee, Reed & Co.	.....	1,271
Dodge, J. A. & Co.	1,071	1,304
Ennis, E. & Co.	1,284	1,363
Ellicott, J. & Co.	1,297	1,420
1,349	1,349	1,349
1,070	1,070	1,070
1,111	1,111	1,111
1,556	1,556	1,556
1,425	1,425	1,425
1,296	1,296	1,296
1,122	1,122	1,122
1,265	1,265	1,265
1,295	1,295	1,295
1,303	1,303	1,303
1,405	1,405	1,405
1,579	1,579	1,579
1,254	1,254	1,254
1,301	1,301	1,301
1,818	1,818	1,818
1,662	1,662	1,662
1,519	1,519	1,519
1,311	1,311	1,311
1,484	1,484	1,484
1,512	1,512	1,512
1,539	1,539	1,539
1,636	1,636	1,636
1,350	1,350	1,350
1,075	1,075	1,075
1,115	1,115	1,115
1,522	1,522	1,522
1,426	1,426	1,426
1,301	1,301	1,301
1,124	1,124	1,124
1,267	1,267	1,267
1,299	1,299	1,299
1,359	1,359	1,359
1,413	1,413	1,413
1,486	1,486	1,486
1,641	1,641	1,641
1,239	1,239	1,239
1,589	1,589	1,589
.....
1,471	1,471	1,471
1,624	1,624	1,624
1,525	1,525	1,525
3,297	3,297	3,297
1,646	1,646	1,646
1,636	1,636	1,636
1,310	1,310	1,310
1,358	1,358	1,358
1,881	1,881	1,881
1,718	1,718	1,718
1,579	1,579	1,579
1,352	1,352	1,352
1,525	1,525	1,525
1,562	1,562	1,562
1,588	1,588	1,588
1,715	1,715	1,715
\$1,693	\$1,693	\$1,693

BRIDGE ABUTMENTS.—(CONTINUED)

No. of proposition.	NAMES OF BIDDERS.	No. 238.	No. 1.—239.	No. 2.—239	No. 1.—241.	No. 2.—241.	No. 1.—242.
	Engineers' estimate,.....	\$1,303	\$1,396	\$1,402	\$1,629	\$1,391	\$1,692
306	Ennis, W. H. & Co.....	1,208	1,307	1,301	1,521	1,295	1,584
453	Field, F. & Co.....	1,191	1,274	1,270	1,470	1,267	1,523
47	Grant, L. A. G. B.....	1,374	1,497	1,490	1,727	1,482	1,799
968	Hall, Isaac.....	918	979	974	1,134	973	1,172
924	Hunt, S. J.....	1,026	1,095	1,091	1,276	1,088	1,320
242	Hughes, J. B.....	1,107	1,201	1,195	1,394	1,190	1,454
893	Hudnutt, J. O & Co.....	1,199	1,277	1,273	1,488	1,270	1,538
278	Kenyon, D.....	1,149	1,225	.....	1,360	1,166	1,482
515	Knapp, E.....	.....	1,185	1,221	1,447	1,333	1,498
496	Lamoureux, A. O.....	1,142	1,216	.....	.....	.....	.....
892	Lee, J. B. & Co.....	1,403	1,502	1,496	1,744	2,530	1,807
465	Lyman, A.....	1,504	1,617	1,611	1,879	1,609	1,951
975	Law, Geo.....	1,496	1,584	1,579	1,841	1,576	1,898
375	Leach, J. & Co.....	.....	.....	.....	1,564	1,341	1,630
397	Moore, Samuel.....	1,200	1,289	1,284	1,502	1,279	1,559
65	Mirick, Ira & Co.....	1,295	1,418	1,411	1,640	.....	.....
1,154	Mills, H. P. & Co.....	1,167	1,241	1,237	1,449	1,235	1,496
1,064	Nichols, J. H.....	1,283	1,406	1,397	1,618	1,389	1,697
573	Peck, L. J.....	981	1,080	1,074	.....	1,069	1,315
986	Palmer, P. & Co.....	1,113	1,182	1,178	1,376	1,175	1,421
593	Reilly, L., jr.....	1,324	1,447	1,441	.....	.....	.....

869	Reed, Candee & Co.....	1,207	1,458	1,452	1,690	1,445	1,742
881	Richman, T. J. & Co.....	1,359	1,429	1,423	1,658	1,418	1,721
1,007	Smith, P. & Co.....	1,330	1,240	1,235	1,442	1,232	1,495
1,168	Severance, H. M.....	1,156	1,281	1,277	1,493	1,273	1,543
269	Voorhies, W.....	1,202	1,238	1,243	1,450	1,237	1,512
547	Wagner, D. & Co.....	1,150	1,462	1,455	1,693	1,447	1,772
1,197	Williams, G. & Co.....	1,339					

BRIDGE ABUTMENTS—From Sections 242 to 245.

No. of proposition.	NAMES OF BIDDERS.	No. 2—242.		No. 243.		No. 245.	
		\$1,401		\$1,631		\$1,914	
	Engineers' estimate,.....						
1,144	Boyce, P.....	1,226		1,334		1,661	
1,136	Boyce, M. & Co	1,380		1,631		1,833	
762	Brintnall, H. & Co.....	1,301		1,535		1,813	
629	Briggs, M. & Co.....	1,023		1,194		1,427	
1,041	Birchard, B. & Co.....	1,231		1,437		1,691	
1,020	Barry, M. & Co.....	1,363		1,565		1,848	
44	Brown & Keyes.....	1,268		1,476		1,753	
371	Clark, J. W.....	3,035		3,242		3,515	
133	Clark, E.....	1,362		1,585		1,879	
650	Cady & Butler.....	1,566		1,820		2,145	
669	Caswell, N. B.....	1,430		1,663		1,963	
548	Clark, P. W.....	1,806		1,521		1,804	
798	Church, R.....	1,358		1,581		1,878	
869	Candee, Reed & Co.....	1,271		1,485		1,751	
943	Chase, L.....	1,128		1,312		1,571	
322	Chamberlain & Bradley.....	1,080		1,255		1,503	
581	Chamberlain & Edgerton.....	1,120		1,303		1,569	
294	Dodge, J. A. & Co.....	1,303		1,513		1,787	
472	Ennis, E. & Co.....	1,317		1,581		.....
306	Ennis, W. H. & Co.....	1,306		1,523		1,811	
409	Ellicott, J. & Co.....	1,420		1,639		1,962	

453	Field, F. & Co.....	1,274	1,471	1,747
47	Grant, L. A. G. B.....	977	1,730	.....
968	Hall, J.....	.....	1,135	1,340
924	Hunt, S. J.....	1,095	1,277	1,524
242	Hughes, J. B.....	1,200	1,396	1,664
893	Hudnutt, J. O. & Co.....	1,177	1,489	1,766
278	Kenyon, D.....	1,194	1,372	.....
515	Knapp, E.....	1,235	1,562	1,928
465	Lyman, A.....	1,617	1,881	2,236
975	Law, G.....	1,584	1,843	2,171
892	Lee, J. B. & Co.....	1,501	1,746	2,057
375	Leach, J. & Co.....	1,352	.....	.....
397	Moore, S.....	1,209	1,504	1,777
1,154	Mills, H. P. & Co.....	1,241	1,451	1,722
1,064	Nichols, J. H.....	1,405	1,620	1,918
986	Palmer, P. & Co.....	1,182	1,378	1,613
573	Peck, L. J.....	1,079	1,255	1,498
891	Richman, T. J. & Co.....	1,457	1,682	1,979
1,007	Smith, P. & Co.....	1,428	1,660	1,970
1,168	.....	1,240	1,444	1,726
269	.....	1,281	1,494	1,769
547	Wagner, D. & Co.....	1,248	1,452	1,733
1,197	Williams, G. & Co.....	1,462	1,696	2,028

INDEPENDENT LINE.—BRIDGE ABUTMENTS.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 246.	No. 247.	No. 249.	No. 1.—252.	No. 2.—252.	No. 253.
	Engineer's estimate,.....	\$1,248	\$1,248	\$1,248	\$1,248	\$1,061	\$1,248
1,144	Boyce, Peter.....	1,303	1,310	1,310	1,265	1,090	1,223
762	Brintnall, H. & Co.,.....	1,341	1,341	1,341	1,341	1,154	1,341
1,020	Barry, M. & Co.,.....	1,351	1,351	1,351	1,352	1,175	1,352
44	Brown, E. & Co.,.....	1,288	1,379	1,379	1,379	1,181	1,379
1,040	Birchard, B. & Co.,.....	.....	.....	.....	1,209	1,042	1,209
869	Candee, W. & Co.,.....	1,335	1,335	1,335	1,335	1,139	1,335
650	Cady, H. & Co.,.....	1,598	1,598	1,598	1,598	1,373	1,598
210	Curtiss, D. F.,.....	1,225	1,225	1,225	1,225	1,050	1,225
768	Church, R.,.....	1,374	1,374	1,374	1,374	1,178	1,374
943	Chase L.,.....	1,222	1,222	1,222	1,222	1,047	1,222
322	Chamberlain & Bradley,.....	1,045	1,045	1,045	1,045	898	1,045
581	Chamberlain & Edgerton,.....	1,051	1,051	1,051	1,051	904	1,051
409	Ellicott, J. & Co.,.....	1,386	1,386	1,386	1,386	1,194	1,386
306	Ennis, W. H. & Co.,.....	1,307	1,307	1,307	1,307	1,119	1,307
453	Field, F. & Co.,.....	1,238	1,238	1,238	1,238	1,075	1,238
924	Hunt, S. J.,.....	1,118	1,118	1,118	1,118	956	1,118
242	Hughes, J. B.,.....	1,185	1,185	1,185	1,185	1,017	1,185
1,160	McGovern, T. & Co.,.....	.....	1,703	1,703	1,703	1,457	.....
1,159	McWilliams, E. & A.,.....	.....	.....	2,417	2,286	2,023	2,322
124	McCabe, J. & Co.,.....	1,188	1,188	1,178	1,178	1,013	1,183
407	Martindale, J. H. & Co.,.....	.....	1,417	1,417	1,418	1,229	1,418

1,154	Mills, H. P. & Co.,	1,258	1,258	1,258	1,258	1,077	1,258	1,258
1,069	Nichols, J. H.,	1,431	1,431	1,431	1,431	1,244	1,431	1,431
467	Oswald, J. & Co.,	1,076	1,076	1,076	1,076	930	1,076	1,076
366	& Co.,	.....	.....	.....	.....	.....	.....	1,672
573	.....	1,043	1,043	1,043	1,043	896	1,043	1,043
1,168	H. M.,	1,222	1,222	1,222	1,222	1,047	1,222	1,222
806	Swain, J. B. & Co.,	1,049	1,049	1,049	1,049	902	1,049	1,049
584	Selye, Lewis,	1,333	1,333	1,333	1,333	1,138	1,333	1,333
1,197	Williams, G. & Co.,	1,429	1,429	1,429	1,429	1,226	1,429	1,429
547	Wagner, D. & Co.,	1,324	1,324	1,324	1,324	1,134	1,324	1,324

INDEPENDENT LINE—BRIDGE ABUTMENTS—(CONTINUED.)

548

ASSEMBLY

1,144	Boyce, Peter,.....	\$1,279	1,040	1,188	1,040	1,208	1,078
762	Brintnall, H. & Co.,.....	1,341	1,154	1,341	1,154	1,341	1,154
1,020	Barry, M. & Co.,.....	1,352	1,175	1,352	1,175	1,351	1,160
44	Brown, E. & Co.,.....	1,379	1,181	1,379	1,181	1,379	1,181
1,044	Birchard, B. & Co.,.....	1,163	1,004	1,163	1,004	1,163	1,004
869	Candee, W. & Co.,.....	1,335	1,139	1,335	1,139	1,335	1,139
650	Cady, H. & Co.,.....	1,598	1,373	1,598	1,373	1,598	1,373
213	Curtiss, D. F.,.....	1,225	1,050	1,225	1,050	1,225	1,050
798	Church, R.,.....	1,374	1,178	1,374	1,178	1,374	1,178
943	Chase, L.,.....	1,222	1,047	1,222	1,047	1,222	1,047
322	Chamberlain & Bradley,.....	1,045	898	1,045	898	1,045	898
581	Chamberlain & Edgerton, . . .	1,051	904	1,051	904	1,051	904
294	Dodge, J. A. & Co.,.....	1,429	1,226	1,429	1,226	1,428	1,226
409	Ellicott, J. & Co.,.....	1,386	1,194	1,386	1,194	1,386	1,194
306	Ennis, W. & Co.,.....	1,367	1,119	1,307	1,119	1,307	1,119
453	Field, F. & Co.,.....	1,238	1,075	1,238	1,075	1,238	1,075
924	Hunt, S. J.,.....	1,118	956	1,123	956	1,118	956
242	Hughes, J. B.,.....	1,185	1,017	1,185	1,017	1,185	1,017
1,159	McWilliams, E. & A.,.....	2,420	2,163	2,428	2,230	2,409	2,150
134	McCabe, J. & Co.,.....	1,183	1,023	1,188	1,023	1,188	1,023
407	Martindale, J. & Co.,.....	1,418	1,121	1,418	1,120	1,309	1,120

1, 154	Mills, H. P. & Co.,	1, 258	1, 077	1, 258	1, 077	1, 258	1, 077
1, 069	Nichols, J. H.,	1, 431	1, 244	1, 431	1, 234	1, 431	1, 234
467	Oswald, J. & Co.,	1, 076	930	1, 076	930	1, 075	940
366	Osburn, N. & Co.,	1, 626	1, 433	1, 672	1, 433	1, 672	1, 438
573	Peck, L. J.,	1, 043	896	1, 043	896	1, 043	896
806	Swain, J. B. & Co.,	1, 047	941	1, 095	941	1, 095	941
1, 013	Sharp, D.,	.....	913	1, 050	913	1, 060	913
1, 168	Severance, H. M.,	1, 222	1, 047	1, 222	1, 047	1, 222	1, 047
584	Selye, L.,	1, 288	1, 173	1, 375	1, 173	1, 375	1, 173
1, 197	Williams, G. & Co.,	1, 429	1, 226	1, 429	1, 226	1, 429	1, 226
547	Wagner, D. & Co.,	1, 324	1, 134	1, 324	1, 134	1, 304	1, 134

INDEPENDENT LINE—BRIDGE ABUTMENTS—(CONTINUED.)

No of proposition.	NAMES OF BIDDERS.	Section 258.		Section 260.		Section 262.	
		No. 1.	No. 2.	No. 1.	No. 2.	No. 1.	No. 2.
	Engineers' estimate,	\$1,061	\$1,248	\$1,248	\$1,061	\$1,248	\$2,801
762	Brintnall, H. & Co.,	1,154	1,341	1,341	1,154	1,342	2,865
1,020	Barry, M. & Co.,	1,175	1,352	1,352	1,175	1,352	2,811
44	Brown, E. & Co.,	1,181	1,379	1,288	1,104	1,288	2,755
1,040	Birchard, B. & Co.,	1,004	1,164	1,144	984	1,114	2,470
597	Bell, J. L., .....	.....	.....	.....	.....	.....	2,660
869	Candee, W. & Co.,	1,139	1,335	1,335	1,139	1,335	2,905
650	Cady, H. & Co.,	1,373	1,598	1,598	1,373	1,593	3,420
213	Curtiss, D. F.,	1,051	1,225	1,225	1,051	1,226	2,651
798	Church, R.,	1,178	1,375	1,375	1,178	1,376	2,962
943	Chase, L.,	1,047	1,222	1,222	1,048	1,222	2,631
322	Chamberlain & Bradley,	898	1,045	1,045	898	1,227	898
581	Chamberlain & Edgerton,	904	1,051	1,051	904	1,051	904
4	Charlick, O., .....	.....	.....	.....	.....	.....	3,407
909	Colt, H. V., .....	.....	.....	.....	.....	.....	3,088
294	Dodge, J. A. & Co.,	1,226	1,429	1,429	1,226	1,429	.....
9-407	Ellicott, J. & Co.,	1,195	1,386	1,386	1,195	1,386	2,893
306	Ennls, W. H. & Co.,	1,119	1,307	1,312	1,164	1,312	2,846
453	Fleld, F. & Co.,	1,075	1,238	1,238	1,076	1,238	2,568
924	Hunt, S. J.,	956	1,118	1,118	907	1,118	.....
242	Hughes, J. B.,	1,017	1,185	1,185	1,015	1,185	2,859
602	Hardy, J., .....	.....	.....	.....	.....	.....	2,673

BRIDGE ABUTMENTS—From Section 266 to 270.

No. of proposition.	NAMES OF BIDDERS.	No. 266.	No. 267.	No. 268.	No. 1—270.	No. 2—270.	No. 3—270.
		\$1,597	\$1,280	\$1,597	\$1,280	\$1,597	\$1,597
762	Brintnall, H. & Co.....	2,585	1,367	1,639	1,367	1,639	1,639
1,042	Birchard, B. & Co.....	2,069	1,189	1,499	1,233	1,499	1,499
315	Butler, O. jun. & Co.....	2,218	1,169	1,408	1,069	1,408	1,408
1,020	Barry, M. & Co.....	2,548	1,377	1,653	1,377	1,653	1,653
597	Bell, J. L.....	2,402	1,258	1,515	1,263	1,505	1,515
519	Clark, J. L. & Co.....	2,023	1,070	1,286	1,070	1,286	1,286
650	Cady, H. & Co.....	3,071	1,623	1,942	1,623	1,942	1,942
909	Colt, H. V.....	2,794	1,482	1,772	1,482	1,772	1,772
322	Chamberlain & Bradley.....	2,067	1,087	1,319	1,087	1,319	1,319
869	Candee, W. & Co.....	2,594	1,346	1,604	1,346	1,604	1,604
798	Church, R.....	2,583	1,359	1,631	1,359	1,631	1,631
943	Chase, L.....	2,378	1,254	1,502	1,254	1,502	1,501
4	Charlick, O.....	3,133	1,655	1,975	1,655	1,975	1,975
213	Curtiss, D. F.....	2,425	1,269	1,536	1,269	1,536	1,536
306	Ennis, W. H. & Co.....	2,576	1,344	.....	1,338	1,614	1,614
409	Ellicott, J. & Co.....	2,520	1,344	1,621	1,344	1,621	1,621
453	Field, F. & Co.....	2,366	1,287	1,540	1,287	1,540	1,540
893	Hudnutt, J. O. & Co.....	2,499	1,315	1,984	1,315	1,984	1,984
602	Hardy, J.....	2,229	1,080	1,412	1,175	1,392	1,414
968	Hall, Isaac.....	1,969	1,042	1,242	1,042	1,242	1,242

279	Hinds, F. & Co.....	2,703	1,431	1,732	1,431	1,732	1,732	1,732
242	Hughes, J. B.....	2,328	1,134	1,374	1,134	1,374	1,374	1,374
924	Hunt, S. J.....	2,002	1,050	1,265	1,050	1,265	1,265	1,265
248	Jenkinson, J. & Co.....	2,509	1,327	1,590	1,331	1,572	1,572	1,572
150	Jackson, J. & Co.....	2,690	1,448	1,682	1,448	1,682	1,682	1,682
1,015	Learned, E. & Co.....	2,990	1,702	2,012	1,702	2,012	2,012	2,012
892	Lee, J. B. & Co.....	2,927	1,547	1,861	1,547	1,861	1,861	1,861
1,060	McGovern, T. & Co.....	3,340	.....	.....	1,742	2,098	2,098	2,098
1,124	McCabe, J. & Co.....	2,340	1,221	1,319	1,127	1,354	1,354	1,354
1,154	Mills, H. P. & Co.....	2,460	1,286	1,547	1,286	1,547	1,547	1,547
1,348	Milliner, J. P. & Co.....	2,523	1,319	1,591	1,369	1,632	1,642	1,642
1,069	Nichols, J. H.....	2,588	1,387	1,681	1,387	1,681	1,681	1,681
366	Osburn, N. & Co.....	3,122	.....	2,016	.....	2,016	2,016	2,016
217	O'Neill, William, jun. & Co.....	.....	1,288	1,528	1,288	1,528	1,528	1,528
573	Peck, L. J.....	2,071	1,087	1,322	1,087	1,322	1,322	1,322
1,123	Ross, M. L.....	2,587	1,350	1,624	1,350	1,624	1,624	1,624
588	Ryan, J. & Co.....	2,385	1,243	1,507	1,243	1,507	1,507	1,507
584	Selye, L.....	2,506	1,348	1,616	.....	.....	.....	.....
1,013	Sharp, D. & Co.....	2,107	1,105	1,350	1,105	1,350	1,350	1,350
991	Spencer, J. O.....	2,920	1,533	1,835	1,533	1,835	1,835	1,835
1,168	Severance, H. M.....	2,402	1,257	1,517	1,257	1,517	1,517	1,517
1,007	Smith, P. & Co.....	2,626	1,386	1,667	1,386	1,667	1,667	1,667
604	Thompson, J. R.....	2,109	1,122	1,341	1,122	1,341	1,341	1,341
75	Turner, Otis.....	2,868	1,544	1,841	1,544	1,841	1,841	1,841
570	Thomson, C. B. & Co.....	2,360	1,247	.....	1,247	1,494	1,494	1,494
1,159	Williams, E. M. & Co.....	4,177	.....	.....	.....	.....	.....	.....
1,197	Williams, G. & Co.....	2,785	1,463	1,759	1,463	1,759	1,759	1,759

BRIDGE ABUTMENTS—(CONTINUED.)

No. of pro- position.	NAMES OF BIDDERS.	No. 266.	No. 267.	No. 268.	No. 1—270.	No. 2—270.	No. 3—270.
	Engineers' estimate,	\$1,597	\$1,280	\$1,597	\$1,280	\$1,597	\$1,597
1,118	Wright, J. T. & Co.....	2,801	1,486	1,777	1,486	1,777	1,777
841	Wood, A. D. & Co.....	2,541	1,374	1,671	1,374	1,671	1,671
547	Wagner, D. & Co..	2,179	1,144	1,381	1,144	1,381	1,381
1,000	Walker, W.....	2,242	1,197	1,432	1,197	1,432	1,432

BRIDGE ABUTMENTS.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 4.—270.	No. 5.—270.	o. 271.	No. 1.—272.	No. 2.—272.	No. 273.
		\$1,597	\$1,280	\$1,280	\$1,597	\$1,597	\$1,597
762	Engineers' estimate,.....						
1,042	Brintnall, H. & Co.....	1,639	1,367	1,367	1,639	1,639	1,639
315	Burchard, B. & Co.....	1,499	1,233	1,269	1,531	1,531	1,581
1,020	Butler, O., jr., & Co.....	1,408	1,169	1,169	1,408	1,408	1,408
597	Barry, M. & Co.....	1,658	1,377	.....	.....	.....	.....
519	Bell, J. L.....	1,515	1,263	1,258	1,505	1,505	1,505
650	Clark, J. L.....	1,286	1,070	1,070	1,286	1,286	1,286
909	Cady, H. & Co.....	1,942	1,623	1,623	1,942	1,942	1,942
322	Colt, H. V.....	1,772	1,482	1,482	1,772	1,772	1,772
869	Chamberlain & Bradley,.....	1,319	1,087	1,087	1,319	1,319	1,319
798	Candee, W. & Co.....	1,604	1,346	1,346	1,604	1,604	1,604
943	Church, A.....	1,631	1,359	1,359	1,631	1,631	1,631
4	Chase, L.....	1,502	1,254	1,254	1,502	1,502	1,502
213	Charlick, O.....	1,975	1,655	1,655	1,975	1,975	1,975
306	Curtiss, D. F.....	1,536	1,269	1,269	1,536	1,536	1,536
409	Ennis, W. H. & Co.....	1,614	1,338	1,338	1,511	1,511	1,511
453	Ellicott, J. & Co.....	1,621	1,344	1,344	1,621	1,621	1,621
893	Field, F. & Co.....	1,540	1,287	1,287	1,540	1,540	1,540
602	Hudnutt, J. O. & Co.....	1,984	1,305	.....	.....	.....	.....
968	Hardy, J.....	1,422	1,173	1,173	1,463	1,412	1,412
279	Hall, J.....	1,242	1,042	1,042	1,242	1,242	1,242
	Hinds, F. & Co.....	1,732	1,431	1,481	1,732	1,733	1,732

BRIDGE ABUTMENTS.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 4.—370.				No. 5.—370.				No. 271.				No. 2.—372.				No. 273.			
		Engineers' estimate,				\$1,597				\$1,280				\$1,281				\$1,597			
242	Hughes, J. B.	1,374	1,374	1,374	1,374	1,374	1,374	1,374	1,374	1,374	1,374	1,374	1,374	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507
924	Hunt, S. J.	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265	1,265
248	Jenkinson, J. & Co.	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586
150	Jackson, J. & Co.	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682	1,682
1,015	Learned, E. & Co.	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012
892	Lee, J. B.	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861
1,060	McGovern, T. & Co.	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098	2,098
124	McCabe, J. & Co.	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354	1,354
1,154	Mills, H. P. & Co.	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547
348	Milliner, J. P. & Co.	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642	1,642
638	Marsh, W. N.	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681
1,069	Nichols, J. H.	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016	2,016
366	Osburn, N. & Co.	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528	1,528
217	O'Neil, W. & Co.	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322	1,322
573	Peck, L. J.	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624	1,624
1,123	Ross, M. L.	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507
588	Ryan, J. & Co.	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350	1,350
1,013	Sharp, D. & Co.	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835
991	Spencer, J. O.	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517	1,517
1,168	Severance, H. M.	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667	1,667
1,007	Smith, P. & Co.	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386	1,386

604	Thompson, J. R.....	1,341	1,122	1,122	1,449	1,440	1,449
75	Turner, O.....	1,841	1,544	1,544	1,841	1,841	1,841
570	Thomson, C. B. & Co.....	1,494	1,247	1,247	1,494	1,494	1,494
1,197	Williams, G. & Co.....	1,759	1,463	1,463	1,759	1,759	1,759
1,118	Wright, J. T. & Co.....	1,777	1,486	1,486	1,777	1,777	1,777
841	Wood, A. D. & Co.....	1,671	1,374	1,374	1,671	1,671	1,671
547	Wagner, D. & Co.....	1,144	1,381	1,249	1,503	1,503	1,503
1,000	Walker, W.....	1,432	1,197	1,197	1,432	1,432	1,432

BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 274.	No. 275.	No. 276.	No. 1.—277.	No. 2.—277.	No. 278.
		\$1,597	\$1,280	\$1,597	\$1,597	\$1,597	\$1,597
776	Brintnall, H. & Co.,.....	1,639	1,367	2,055	1,536	1,536	1,536
1,042	Burchard, B. & Co.,.....	1,531	1,264	1,916	1,531	1,531	1,531
315	Butler, O. Jr. & Co.,.....	1,453	1,109	1,825	1,453	1,453	1,453
597	Bell, J. L.,.....	1,495	1,263	1,927	1,515	1,525	1,525
519	Clark, J. L. & Co.,.....	1,286	1,070	1,612	1,316	1,286	1,287
650 a 651	Cady, H. & Co.,.....	1,942	1,623	2,365	2,365	2,365	2,365
909	Colt, H. V.,.....	1,772	1,482	2,224	1,772	1,772	1,772
322	Chamberlain & Bradley,.....	1,319	1,087	1,643	1,319	1,319	1,319
869	Candee, W. & Co.,.....	1,604	1,346	2,138	1,604	1,604	1,604
798	Church, R.,.....	1,631	1,359	2,051	1,631	1,631	1,631
4	Charlick, O.,.....	1,975	1,655	2,490	1,975	1,975	1,975
218	Curtiss, D. F.,.....	1,536	1,269	1,923	1,536	1,536	1,536
943	Chase, L.,.....	1,502	.....	1,889	1,502	1,502	1,502
306	Ennis, W. H. & Co.,.....	1,511	1,250	1,931	1,614	1,614	1,614
409	Ellicott, J. & Co.,.....	1,621	1,344	2,014	1,621	1,621	1,621
453	Field, F. & Co.,.....	1,540	1,287	1,901	1,540	1,540	1,540
602	Hardy, J.,.....	1,463	1,261	1,908	1,515	1,515	1,520
968	Hall, I.,.....	1,242	1,042	1,568	1,242	1,242	1,242
279	Hinds, F. & Co.,.....	1,732	1,431	2,153	1,732	1,732	1,732
212	Hughes, J. B.,.....	1,507	1,245	1,888	1,507	1,507	1,507
924	Hunt, S. J.,.....	1,265	1,050	1,591	1,265	1,265	1,265

658	Holden, S. C.	1,682	1,682	1,682	1,682	1,682	1,448	1,493
150	Jackson, J. & Co.	2,012	2,012	2,012	2,012	2,012	1,702	1,682
1,015	Learned, E. & Co.	1,861	1,861	1,861	1,861	1,861	1,547	2,012
892	Lee, J. B. & Co.	1,547	1,547	1,547	1,547	1,547	1,431	1,861
710	Lewis, L. & Co.	1,622	1,622	1,622	1,622	1,622	1,286	1,720
1,154	Mills, H. P. & Co.	1,681	1,681	1,681	1,681	1,681	1,324	1,547
348	Milliner, J. P. & Co.	1,220	1,220	1,220	1,220	1,220	1,387	1,596
1,068	Nichols, J. H.	1,624	1,624	1,624	1,624	1,624	1,009	1,387
573	Peck, L. J.	1,507	1,507	1,507	1,507	1,507	1,350	1,220
88	Phillips, L. & Co.	1,835	1,835	1,835	1,835	1,835	1,533	1,316
1,123	Ross, M. L.	1,522	1,522	1,522	1,522	1,522	1,260	1,507
588	Ryan, J. & Co.	1,667	1,667	1,667	1,667	1,667	1,386	1,846
356	Reed, E. S.	1,449	1,449	1,449	1,449	1,449	1,257	1,835
991	Spencer, J. O.	1,841	1,841	1,841	1,841	1,841	1,544	1,522
1,168	Severance, H. M.	1,574	1,574	1,574	1,574	1,574	1,320	1,667
1,007	Smith, P. & Co.	1,759	1,759	1,759	1,759	1,759	1,463	1,500
604	Thompson, J. R.	1,777	1,777	1,777	1,777	1,777	1,486	1,751
75	Turner, O.	1,671	1,671	1,671	1,671	1,671	1,374	1,631
570	Thompson, C. B.	1,503	1,503	1,503	1,503	1,503	1,249	1,759
1,197	Williams, G. & Co.	1,432	1,432	1,432	1,432	1,432	1,197	1,777
1,118	Wright, J. T. & Co.	1,284	1,284	1,284	1,284	1,284	1,066	1,671
841	Wood, A. D. & Co.							1,503
547	Wagner, D. & Co.							1,432
1,000	Walker, W.							1,284
222	Wilder, A.							

BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	INDEPENDENT LINE AT WOLLEY.			
		Sec. 289.	Sec. 290.	Sec. 291.	Sec. 292.
	Engineers' estimate,	\$1,597	\$1,597	\$1,597	\$1,597
78	Burrill, T.,	1,659	.....	.....	1,659
1,042	Burchard, B. & Co.,	1,531	1,531	1,531	1,531
315	Butler & Stanbrough,	1,510	1,510	1,510	1,561
762	Brintnall, H. & Co.,	1,536	1,536	.....	.....
92	Boughton, Buell & Co.,	1,550	.....	.....	.....
50	Colton, J. C. & Co.,	1,779	1,779	1,779	1,779
798	Church, R.,	1,528	1,528	1,528	1,528
651	Cady & Butler,	1,883	1,779	1,779	1,883
322	Chamberlain & Bradley,	1,319	1,319	1,319	1,319
943	Chase, L.,	1,613	1,613	1,613	1,613
869	Candee, Reed & Co.,	1,649	1,649	1,649	1,649
909	Colt, H. V.,	1,772	1,772	1,772	1,772
581	Chamberlain & Edgerton,	1,346	1,346	1,346	1,346
4	Charlick, O.,	1,975	1,975	1,975	1,975
213	Curtiss, D. F.,	1,536	1,536	.....	.....
24	Clark, O.,	1,850	1,850	1,850	.....
306	Ennis, W. H.,	1,614	1,614	1,614	1,589
409	Ellicott, J. & Co.,	1,621	1,621	1,569	1,569
453	Field & Munger,	1,540	1,540	1,540	1,540
47	Grant, L. A. G. B.,	1,744	1,744	1,744	1,744

174	Hard, G. & Co.,	.....	.....	.....	1,931	1,931	1,931	2,343
113	Harrington, M. A.,	.....	.....	.....	.....	.....	.....	1,383
279	Hinds & Copeland,	.....	1,579	1,571	.....	.....	.....	1,579
242	Hughes, J. B.,	.....	1,507	1,507	1,575	1,575	1,575	1,575
968	Hall, Isaac,	.....	1,242	1,242	1,242	.....	.....	.....
536	Hard, G.,	.....	1,377	1,377	.....	.....	.....	.....
658	Holden, S. C.,	.....	1,493	1,493	1,493	.....	.....	.....
692	Hart, I. N.,	.....	.....	.....	2,009	2,009	2,009	2,009
150	Jackson, J. & Co.,	.....	1,732	1,732	1,732	1,732	1,732	1,732
479	King, J. B. & Co.,	.....	.....	.....	1,679	1,576	1,576	1,627
1,015	Learned, E. & Co.,	.....	2,012	2,012	2,012	2,012	2,012	2,012
1,892	Lee, J. B. & Co.,	.....	1,861	1,861	1,861	1,861	1,861	1,861
710	Lewis, W. L. & Co.,	.....	1,720	1,720	1,720	.....	.....	.....
1,154	Mills & Harwood,	.....	1,547	1,547	1,547	1,547	1,547	1,547
1,197	Moore & Williams,	.....	1,759	1,759	1,759	1,759	1,759	1,759
1,348	Milliner, J. P.,	.....	1,581	1,581	1,581	1,581	1,581	.....
1,069	Nichols, J. H.,	.....	1,681	1,681	1,681	1,681	1,681	1,681
467	Oswald & Buell,	.....	.....	.....	1,349	1,349	1,349	.....
573	Peck, L. J.,	.....	1,220	1,220	1,220	1,220	1,220	1,220
531	Pringle, B.,	.....	.....	.....	1,537	1,537	1,537	1,537
88	Phillips, L. H.,	.....	1,316	1,316	1,424	1,424	1,424	.....
356	Reed, E. S.,	.....	1,846	1,846	1,743	.....	.....	1,743
588	Ryan & Swan,	.....	1,507	1,507	1,507	1,507	1,507	1,507
696	Sawyer, J.,	.....	.....	.....	.....	.....	.....	1,525
1,007	Smith, Moore & Co.,	.....	1,667	1,667	1,667	1,667	1,667	1,667
661	Soper & Field,	.....	.....	.....	1,469	1,469	1,469	1,484
991	Spencer, J. O.,	.....	1,835	1,835	1,835	1,835	1,835	1,835

BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Section 287.		INDEPENDENT LINE AT HOLLEY.			
		No. 1.	No. 2.	Sec. 289.	Sec. 290.	Sec. 291.	Sec. 292.
	Engineers' estimate,	\$1,597	\$1,597	\$1,597	\$1,597	\$1,597	\$1,597
1,168	Severance, H. M.,.....	1,522	1,522	1,522	1,522	1,522	1,522
1,013	Sharp, D. & Co., .....	.....	.....	.....	1,350	.....	.....
75	Turner, O.,.....	1,750	1,750	1,750	1,750	1,750	1,750
570	Thompson, C. B. Co.,.....	1,631	1,631	1,631	.....	.....	.....
604	Thompson, J. R.,.....	1,500	1,500	.....	.....	.....	.....
1,000	Walker, W.,.....	1,432	1,432	1,432	1,432	1,432	1,432
1,118	Wright, J. T.,	1,777	1,777	1,777	1,777	1,777	1,777
841	Wood & Clark,	1,646	1,646	1,646	1,646	1,646	1,646
547	Wagner & Levings.....	1,503	1,525	1,505	1,525	1,525	1,525
222	Wilder, A.,	1,336	1,336	1,336	1,336	1,336	1,336

BRIDGE ABUTMENTS—From Section 293 to 298.

No. of propositions.	NAMES OF BIDDERS.	No. 293.	No. 1—394.	No. 2—394.	No. 296.	No. 297.	No. 298.
	Engineers' estimate,.....	\$1,280	\$1,597	\$1,597	\$1,597	\$1,280	\$1,280
78	Burrill, T.....	1,449	1,720	1,720	1,720	1,423	1,437
1,042	Burchard, B. & Co.....	1,264	1,531	1,531	1,531	1,264	1,264
215	Butler & Stanbrough.....	1,346	1,561	1,561	1,561	1,346	1,346
50	Colton, J. C. & Co.....	1,493	1,779	1,779	1,779	1,493	1,493
798	.....	1,271	1,528	1,528	1,528	1,271	1,271
651	.....	1,572	1,883	1,883	1,779	1,572	1,572
322	& Bradley.....	1,086	1,319	1,319	1,319	1,086	1,086
943	.....	1,347	1,610	1,610	1,613	1,347	1,347
869	l & Co.....	1,344	1,649	1,649	1,649	1,344	1,344
909	.....	1,481	1,772	1,772	1,772	1,481	1,481
581	& Edgerton.....	1,103	1,546	1,546	1,346	1,103	1,103
4	Charlick, O.....	1,655	1,975	1,975	1,975	1,665	1,665
306	Ennis, W. H.....	1,317	1,589	1,589	1,614	1,338	1,338
409	Ellicott, J.....	1,300	1,569	1,569	1,569	1,300	1,300
453	Field & Munger.....	1,286	1,540	1,540	1,540	1,286	1,286
47	Grant, L. A. G. B.....	1,452	1,744	1,744	1,744	1,452	1,452
174	Hard, G. & Co.....	1,964	2,343	2,343	2,137	1,785	1,612
1,113	Harrington, M. A.....	1,142	1,383	1,383	1,393	1,142	1,142
279	Hinds & Copeland.....	1,343	1,579	1,579	1,579	1,343	1,343
242	Hughes, J. B.....	1,269	1,507	1,507	1,649	1,269	1,313
150	Jackson, J. & Co.....	1,404	1,681	1,681	1,681	1,404	1,404

BRIDGE ABUTMENTS—(Continued.)

566

[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	No. 293.	No. 1—294.	No. 2—294.	No. 296.	No. 297.	No. 298.
	Engineers' estimate,.....	\$1,280	\$1,597	\$1,597	\$1,597	\$1,280	\$1,280
479	King, J. B. & Co.....	1,357	1,576	1,576	1,576	1,357	1,313
1,015	Learned, E. & Co.....	1,702	.....	2,012	2,012	1,702	1,702
892	Lee, Britton & Co.....	1,539	1,881	1,881	1,861	1,539	1,539
1,154	Mills & Harwood.....	1,286	1,547	1,547	1,547	1,286	1,286
1,197	Moore & Williams.....	1,463	1,759	1,759	1,759	1,463	1,463
1,069	Nichols, J. H.....	1,385	.....	1,385	1,681	1,387	1,387
573	Peck, L. J.....	1,009	1,220	1,220	1,220	1,009	1,009
531	Pringle, B.....	1,280	.....	.....	.....	.....	.....
356	Reed, E. S.....	1,450	1,743	1,743	1,743	1,450	1,450
588	Ryan & Swan.....	1,243	1,507	1,507	1,507	1,243	1,243
696	Sawyer, J.....	1,312	.....	1,312	1,576	1,312	1,312
1,007	Smith, Moore & Co.....	1,520	1,513	1,513	1,667	1,520	1,520
661	Soper & Field.....	1,291	1,484	1,484	1,777	1,239	1,239
991	Spencer, J. O.....	1,533	1,835	1,835	1,835	1,533	1,533
1,168	Severance, H. M.....	1,260	1,542	1,542	1,522	1,260	1,260
75	Turner, Otis.....	1,464	1,750	1,750	1,750	1,464	1,464
1,000	Walker, W.....	1,197	1,432	1,432	1,432	1,197	1,197
1,118	Wright, J. T. & Co.....	1,480	1,777	1,777	1,777	1,480	1,480
841	Wood & Clark.....	1,371	1,646	1,646	1,646	1,371	1,371
547	Wagner & Levings.....	1,254	1,503	1,503	2,518	1,254	1,254

BRIDGE ABUTMENTS.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 300.—1.	No. 300.—2.	No. 302.	No. 303.	No. 304.	No. 305.
		\$1,597	\$1,597	\$1,597	\$1,597	\$1,597	\$1,597
78	Burrill, T.,	1,720	1,715	1,663	1,638	1,607	1,547
1,042	Burchard, B. & Co.,	1,531	1,531	1,531	1,531	1,531	1,531
315	Butler & Stanbrough,	1,561	1,561	1,561	1,561	1,561	1,561
353	Brown, G., .....	.....	.....	.....	.....	.....	1,915.
24	Clark, O., .....	.....	.....	.....	.....	.....	1,850
50	Colton, J. C. & Co.,	1,779	1,779	1,779	1,779	1,779	1,779
798	Church, R.,	1,528	1,528	1,528	1,528	1,528	1,528
651	Cady & Butler,	1,572	1,572	1,572	1,572	1,572	1,572
322	Chamberlain & Bradley,	1,319	1,319	1,319	1,319	1,319	1,319
943	Chase, L.,	1,613	1,613	1,613	1,613	1,613	1,613
869	Candee, Reed & Co.,	1,649	1,649	1,649	1,649	1,649	1,649
909	Colt, H. V.,	1,772	1,772	1,772	1,772	1,772	1,772
581	Chamberlain & Edgerton,	1,346	1,346	1,346	1,346	1,346	1,346
4	Charlick, O.,	1,975	1,975	1,975	1,975	1,975	1,975
140	Collins, A.,	1,912	1,912	1,912	1,912	1,912	1,912
409	Ellicott, J. & Co.,	1,569	1,569	1,569	1,569	1,569	1,569
453	Field & Munger,	1,540	1,540	1,540	1,540	1,540	1,540
47	Grant, L. A. G. B.,	1,744	1,744	1,744	1,744	1,744	1,744
174	Hard, G.,	2,142	2,142	1,931	1,931	2,343	2,343
1,113	Harrington, M. A.,	1,383	1,383	1,383	1,383	1,383	1,383

BRIDGE ABUTMENTS--(CONTINUED.)

No. of proposition.	No. 302.				No. 303.				No. 304.				No. 305.			
	\$1,597				\$1,597				\$1,597				\$1,597			
279	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
242	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586	1,586
389	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
150	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
479	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681
1,015	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
892	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012	2,012
1,154	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861	1,861
1,197	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547	1,547
1,069	1,759	1,759	1,759	1,759	1,759	1,759	1,759	1,759	1,759	1,759	1,759	1,759	1,759	1,759	1,759	1,759
573	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681	1,681
356	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220
588	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743
696	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507	1,507
1,007	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576	1,576
661	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513
991	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484
1,168	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835	1,835
239	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522
57	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750	1,750

Lawyer, J. O.,
 Smith, Moore & Co.,
 Soper & Field,
 Spencer, J. O.,
 Severance, H. M.,
 Stage, I. N.,
 Turner, O.,

1,000	Walker, W.,	1,432	1,432	1,432	1,432	1,432	1,432
1,118	Wright, J. T. & Co.,	1,777	1,777	1,777	1,777	1,777	1,777
841	Wood & Clark,	1,646	1,646	1,646	1,646	1,646	1,646
547	Wagner & Levings,	1,525	1,525	1,525	1,525	1,525	1,525

BRIDGE ABUTMENTS—(CONTINUED.)

570

[ASSEMBLY

No. of proposition.	NAMES OF BIDDERS.	Section 308.	Section 309.	Section 311.	Farm, Section 312.	Section 313.	
						No. 1.	No. 2.
	Engineers' estimate,	\$1,280	\$1,597	\$1,597	\$1,280	\$1,597	\$1,280
78	Burrill, T.,	1,392	1,650	1,603	1,351	1,603	1,351
1,042	Burchard, B.,	1,264	1,531	1,531	1,264	1,531	1,264
353	Brown, G., .....	.....	.....	.....	1,600	.....	.....
315	Butler & Stanbrough,	1,346	1,561	1,561	1,346	1,561	1,346
140	Collins, A.,	1,608	1,912	1,912	1,608	1,912	1,608
150	Colton, I. C.,	1,493	1,779	1,779	1,493	1,779	1,493
798	Church, R.,	1,271	1,528	1,528	1,271	1,528	1,271
24	Clark, O., .....	.....	.....	1,850	1,271	1,850	1,271
651	Cady & Butler,	1,572	1,883	1,883	1,271	1,779	1,271
322	Chamberlain & Bradley,	1,086	1,319	1,319	1,086	1,319	1,086
943	Chase, L.,	1,347	1,613	1,613	1,347	1,613	1,347
869	Candee, Reed & Co.,	1,344	1,649	1,649	1,344	1,649	1,344
909	Colt, H. V.,	1,481	1,772	1,772	1,481	1,772	1,481
581	Chamberlain & Edgerton,	1,103	1,346	1,346	1,103	1,346	1,103
4	Charlick, O.,	1,655	1,975	1,975	1,655	1,975	1,655
622	Daniels, C. A.,	1,079	1,302	.....	.....	1,306	986
409	Ellicott, J. & Co.,	1,300	1,569	1,569	1,300	1,569	1,300
453	Field & Munger,	1,286	1,540	1,540	1,286	1,540	1,286
47	Grant, L. A. G. B.,	1,452	1,744	1,744	1,452	1,744	1,452
389	Hopkins & Weeks, .....	.....	.....	1,841	.....	.....	.....

536	Hard, G.,	1,183	1,428	1,383	1,142	1,383	1,142
1,113	Harrington, M. A.,	1,142	1,383	1,383	1,142	1,383	1,142
279	Hinds & Copeland,			1,579	1,343		
242	Hughes, J. B.,	1,269	1,586	1,586	1,507	1,586	1,507
692	Hart, I. N.,	1,707	2,009				
414	Hilton, J. M. K.,			1,401	1,169		
71	Jackson, J. Jr.,	1,354	1,655	1,655	1,354	1,655	1,354
150	Jackson, J. & Co.,	1,404	1,681	1,681	1,404	1,681	1,404
479	King, J. B.,			1,627			
564	Kneeland, S. W.,			1,302	1,079	1,302	1,079
1,015	Learned, E. & Co.,	1,702	2,012	2,012	1,702	2,012	1,702
892	Lee, Britton & Co.,	1,539	1,861	1,861	1,539	1,861	1,539
1,154	Mills & Harwood,	1,286	1,547	1,547	1,286	1,549	1,286
1,197	Moore & Williams,	1,463	1,759	1,759	1,463	1,759	1,463
1,069	Nichols, J. H.,	1,387	1,681	1,681	1,387	1,681	1,387
573	Peck, L. J.,	1,009	1,220	1,220	1,009	1,220	1,009
88	Phillips, L. H.,			1,373	1,136		
531	Pringle, B.,	1,280	1,537	1,537	1,280	1,537	1,280
588	Ryan & Swan,	1,243	1,507	1,507	1,243	1,507	1,243
356	Reed, E. S.,	1,450	1,743				
1,007	Smith, Moore & Co.,	1,520	1,513	1,513	1,520	1,513	1,520
991	Spencer, J. O.,	1,533	1,835	1,835	1,533	1,835	1,533
1,168	Severance, H. M.,	1,260	1,522	1,522	1,260	1,522	1,260
75	Turner, Otis,	1,464	1,750	1,750	1,464	1,750	1,464
620	Tomsley, Field & Co.,	1,279	1,543	1,543	1,275	1,539	1,275
1,000	Walker, W.,	1,197	1,433	1,432	1,197	1,432	1,197

BRIDGE ABUTMENTS—(CONTINUED.)

E
—
1

BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	EXTENSION.				OLD LINE AT HOLLY.		
		Section 314.	Section 289.	Section 290.	Section 291.	Section 289.	Section 290.	Section 291.
	Engineers' estimate,	\$2,572	\$1,597	\$1,597	\$1,597	\$1,597	\$1,597	\$1,597
1,042	Burchard, B. & Co.,	2,545	.....	.....	.....	.....	.....	.....
315	Butler & Stanbrough,	2,661	1,556	1,556	1,510	1,556	1,556	1,510
762	Brintnall, H. & Co., .....	.....	1,536	1,536	.....	1,536	1,536	.....
73	Burrill, T.,	2,598	1,659	1,715	1,732	1,659	1,715	1,732
50	.....	2,836	1,779	1,779	1,779	1,779	1,779	1,779
798	.....	2,539	.....	.....	.....	.....	.....	.....
651	.....	3,120	.....	.....	.....	.....	.....	.....
322	Chamberlain & Bradley,	2,192	.....	.....	.....	.....	.....	.....
943	Chase, L.,	2,682	.....	.....	.....	.....	.....	.....
869	Candee, Reed & Co.,	2,689	.....	.....	1,604	.....	.....	1,604
909	Colt, H. V.,	2,927	.....	.....	.....	.....	.....	.....
581	Chamberlain & Edgerton,	2,235	.....	.....	.....	.....	.....	.....
4	Charlick, O.,	3,276	1,975	1,975	1,975	1,975	1,975	1,975
24	Clark, O.,	3,057	.....	.....	.....	.....	.....	.....
140	Collins, A.,	2,169	.....	.....	.....	.....	.....	.....
610	Danolds, C. A.,	2,131	.....	.....	.....	.....	.....	.....
409	Ellicott, J.,	2,591	.....	.....	.....	.....	.....	.....
453	Field & Munger,	2,412	.....	.....	.....	.....	.....	.....
47	Grant, L. A. G. B.,	2,871	.....	.....	.....	.....	.....	.....
174	Hard, G. & Co., .....	.....	1,931	1,931	1,931	1,931	1,931	1,931
1,113	Harrington, M. A.,	2,291	.....	.....	.....	.....	.....	.....

BRIDGE ABUTMENTS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	BY.	
		Section 291.	
	Engineers' estimate,.....	\$1,597	
279	Hinds & Copeland,.....	.....	.....
242	Hughes, J. B.,.....	.....	.....
389	Hopkins & Weeks,.....	.....	.....
810	Hewes, H. N.,.....	.....	.....
71	Jackson, J. Jr., & Co.,.....	.....	.....
150	Jackson, J. & Co.,.....	1,732	.....
479	King, J. B. & Co.,.....	1,627	.....
564	Kneeland, S. W.,.....	.....	.....
1,015	Learned, E. & Co.,.....	.....	.....
892	Lee, J. B. & Co.,.....	.....	.....
1,154	Mills & Harwood,.....	1,547	.....
1,197	Moore & Williams,.....	.....	.....
1,069	Nichols, J. H.,.....	1,681	.....
573	Peck, L. J.,.....	.....	.....
88	Phillips, L. H.,.....	.....	.....
531	Pringle, B.,.....	.....	.....
356	Reed, E. S.,.....	1,743	.....
688	Ryan & Swan,.....	.....	.....
1,007	Smith, Moore & Co.,.....	.....	.....
991	Spencer, J. O.,.....	1,885	.....
1,168	Severance, H. M.,.....	.....	.....

75	Turner, Otis,	2,875	.....	.....	.....
620	Tousley, Field & Co.,	2,558	.....	.....	.....
1,000	Walker, W.,	2,630	.....	.....	.....
1,118	Wright, J. T.,	2,939	.....	.....	.....
841	Wood & Clark,	2,684	.....	.....	.....
547	Wagner & Levings,	2,518	.....	.....	.....

BIDS ON BRIDGE SUPERSTRUCTURES,

On sections from 207 to 315, inclusive. Cost of single track road bridge, on plans 1, 2, 3, 4, 5.

NAMES OF PROPOSERS.	Plan No. 1,		Plan No. 2.	Plan No. 3.	Plan No. 4.	Plan No. 5.
	with extens'n Stillson's.	without ext'n Stillson's.	Marsh's.	Beach's.	Whipple's.	Cov. bridge.
Squire Whipple,.....	.....	.....	.....	2,732	.....	.....
S. B. Randall,.....	965	2,298	.....	.....	.....	.....
Burchard, Bixby & Co.,.....	1,351	2,472	.....	.....	.....	2,727
Briggs & Jones,.....	1,330	2,431	1,955	.....	.....	.....
N. Osburn,.....	1,164	2,431	.....	.....	.....	2,663
A. M. Robinson,.....	956	2,285	.....	.....	.....	.....
Isaac Hall,	1,004	2,168	1,643	2,744	.....	2,528
Otis Turner,	1,371	2,555	.....	.....	.....	2,748
M. A. Harrington,.....	1,048	2,265	1,921	.....	.....	2,281
Samuel J. Hunt,.....	1,081	2,389	.....	.....	.....	2,451
Chase & McGlachlin,.....	1,089	2,265	1,593	.....	.....	.....
L. A. G. B. Grant,.....	1,330	2,514	.....	.....	.....	2,791
Ennis & Morgan,	1,160	2,298	1,807	2,830	2,552	2,469
E. B. Smith & Co.,.....	1,220	2,514	2,287	.....	.....	2,706
Erastus Corning & Co., .....	.....	.....	1,989	3,046	3,216	.....
J. R. Clarke,.....	.....	.....	1,872	.....	.....	2,536
A. B. Williams, .....	.....	2,408	2,162	3,088	.....	2,493
J. N. Nelson,.....	.....	.....	.....	2,621	.....	2,451

BRIDGE SUPERSTRUCTURES--(CONTINUED.)

BRIDGE SUPERSTRUCTURES—(CONTINUED.)

ROAD BRIDGE.

Comparative cost of a single track, with sidewalks, 17 feet wide and 80 feet span.

NAMES OF PROPOSERS.	Plan No. 1.					Plan No. 2.		Plan No. 3.		Plan No. 4.		Stanley's.	J. C. Seymour
	Stillson's.					Marsh's.		Beach's.		Whipple's.			
S. B. Randall,	850												
Burchard, Bixby & Co.,	1,058												
Briggs & Hall,	996												
Briggs & Jones,	996	1,908								1,870			
N. Osburn,	996												
Benj. Pringle,	1,027												
A. M. Robinson,	7,888												
Isaac Hall,	695	1,601						1,561		1,352			
A. B. Williams,	954	2,241						1,976		1,785			
Otis Turner,	1,079												
M. A. Harrington,	796									1,681			
Samuel I. Hunt,	913												
Chase & McGlachlin,	763	1,539								1,190			
I. W. Goodrich,	850												
L. A. G. B. Grant,	1,037												
Erastus Corning, & Co.,		2,129						2,067		2,429			
J. M. Nelson,										1,147			
S. Whipple,										1,920			

BRIDGE SUPERSTRUCTURES—(Continued.)

NAMES OF PROPOSERS.	Plan No. 1. Stillson's.	Plan No. 2. Marsh's.	Plan No. 3. Beach's.	Plan No. 4. Whipple's	Hudnuth's.	Stanley's.	J. C. Seymour
J. R. Clarke,	2,033	.....	.....	.....	.....	.....
Ennis & Morgan,	1,875	1,769	.....	.....	.....	.....
Chase & Hudnuth,	1,120	.....	.....
E. L. Stanley,	1,475	.....
J. C. Seymour,	1,275
Engineers' estimates,	\$827	\$1,844	\$1,641	\$1,392	.....	.....	.....

COMPARATIVE COST

Of a single Track Road Bridge, seventeen feet wide and eighty feet span.

NAMES OF BIDDERS.	Plan No. 2. Marsh's.					Plan No. 3. Beach's.		Plan No. 4. Whipple's.		Plan No. 5. Cor'd bridge.		Cornings plan.	
Erastus Corning,	1,528	1,445	1,615	.....	.....	.....	.....	821	.....
S. B. Randall,	639	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Burchard, Bixby & Co.,	1,016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Briggs & Hall,	900	.....	.....	.....	.....	.....	.....	1,126	.....	.....	.....	.....
W. P. Danolds,	1,079	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Briggs & Jones,	926	.....	.....	1,494	.....	.....	.....	.....	.....	.....	.....	.....
N. Osburn,	830	.....	.....	.....	.....	.....	.....	.....	1,062	.....	.....	.....
B. Pringle,	1,016	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
A. M. Robinson,	622	.....	.....	.....	1,143	.....	.....	.....	.....	.....	.....	.....
Isaac Hall,	669	.....	.....	1,182	.....	.....	.....	.....	927	.....	.....	.....
Otis Turner,	1,037	.....	.....	.....	.....	.....	.....	.....	1,147	.....	.....	.....
M. A. Harrington,	713	.....	.....	.....	.....	.....	.....	.....	680	.....	.....	.....
E. I. Hunt,	747	.....	.....	.....	.....	.....	.....	.....	850	.....	.....	.....
Chase & McGlachlin,	755	.....	.....	1,132	.....	.....	.....	.....	.....	.....	.....	.....
Green & Boyce,	873	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
J. W. Goodrich,	879	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
L. A. G. B. Grant,	996	.....	.....	.....	.....	.....	.....	.....	1,105	.....	.....	.....
J. M. Pickett,	795	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ennis & Morgan,	826	.....	.....	1,875	1,229	951	.....	.....	868	.....	.....	.....
E. B. Smith & Co.,	996	.....	.....	1,826	.....	.....	.....	.....	1,105	.....	.....	.....
J. B. Clarke,	1,411	.....	.....	.....	.....	935	.....	.....	.....

COMPARATIVE COST

Of a Single Track Road Bridge, seventeen feet wide and eighty feet span.

COMPARATIVE COST

Of a Road Bridge, single track, seventeen feet wide and eighty feet span.

1,17
1,11
403
1,167 H.

PLAN No. 1—(STILLSON'S)—BRIDGE SUPERSTRUCTURES.

Neer proposition.	NAMES OF BIDDERS.	Road Bridge, sin- gle track, with two side-walks, span 83 feet.	Road Bridge, sin- gle track, with extension, span 83 feet.	Road Bridge, sin- gle track, with extension, span 94 feet, sec. 219	Road Bridge, sin- gle track, span 83 feet.	Road Bridge, sin- gle track, sec. 219, span 94 ft.	Farm Bridge, sin- gle track, span 83 feet.	Road Bridge, dou- ble track, span 83 feet.
673	Akenhead & Cole, sec. 218,	.....	.....	.....	2,869	.....	2,869	.....
"	" " 219,	.....	.....	3,431	.....	3,431	.....	.....
"	" " 228,	.....	.....	.....	2,739	.....	2,739	.....
63	Michael Brock, .....	.....	.....	.....	1,120	1,269	871	.....
1,044	Burchard, Bixby & Co., (eastern sub-division),	1,203	1,162	1,316	871	987	705	.....
485	Allen L. Burn & Co., from 246 to 260 inc.,	1,058	1,016	1,151	1,245	.....	1,162	.....
142	Briggs & Hall, from 207 to 314 inc.,	1,618	.....	.....	830	940	664	.....
630	Briggs & Jones, from 207 to 314 inc.,	996	900	.....	830	940	747	.....
1,082	Briggs & Jones, from 207 to 314 inc.,	996	996	1,128	756	857	683	.....
280	S. W. Barnes, from 207 to 314 inc., .....	.....	.....	.....	826	936	.....	.....
797	R. Cummins, from 207 to 314 inc., .....	.....	.....	.....	.....	.....	.....	.....
938	R. Church, *from 207 to 315, both inclusive,	1,494	1,120	1,269	.....	.....	*996	1,743
21	Chase & McGlachlin, from 219 to 314 inc.,	763	755	855	664	752	518	.....
607	Orville Clark, on sec. 208, 286, 287, 305, 311, 312, 313 and 314, .....	.....	.....	.....	830	.....	664	.....
307	W. C. Danolds, from 266 to 314 inc.,	1,224	1,079	.....	1,037	.....	892	.....
423	Ennis & Morgan, from 207 to 314 inc.,	867	826	936	697	789	.....	.....
	Ennis R., from 207 to 314 inc., .....	.....	.....	.....	904	1,024	664	.....

Engineer's estimate,	\$827	\$681
----------------------------	-------	-------	-------	-------

1,135	Green & Boyce, from 239 to 245 inc.,	.....	873	.....	762	.....	597	.....
235	I. W. Goodrich, from 207 to 235 inc.,	850	813	921	664	752	560	.....
48	L. A. G. B. Grant, from 207 to 262 inc.,	1,120	1,079	1,222	996	1,128	871	.....
"	" 266 to 314 inc.,	1,037	996	.....	913	.....	788	.....
1,114	M. A. Harrington, from 219 to 314 inc.,	796	713	.....	664	.....	518	.....
922	S. I. Hunt, from 266 to 280 inc.,	913	747	.....	788	.....	581	.....
921	" 230 to 245 inc.,	913	747	.....	788	.....	581	.....
970	Isaac Hall, from 207 to 315,	695	669	.....	567	.....	457	.....
43	C. Keyes, on sec. 207 to 262,	.....	.....	.....	1,245	1,410	996	.....
450	Martindale and Ferrell, from 207 to 260 inc., and 271, 272 and 273,	.....	.....	.....	830	940	664	.....
64	J. Mirick & Co., from 219 to 241 inc.,	1,411	1,369	1,551	1,328	1,504	996	.....
386	N. Osburn, from 207 to 315 inc.,	996	830	940	830	940	747	.....
987	Philip Palmer, from 237 to 245 inc.,	.....	.....	.....	1,079	.....	664	.....
675	I. N. Pickett, on sec. 218 and 219,	.....	805	.....	797	.....	726	.....
987	P. Palmer & Co., on sec. 243,	.....	.....	.....	996	.....	.....	.....
758	Peterson & Willard, (eastern sub-division),	1,660	1,286	1,457	.....	.....	1,120	.....
530	B. Pringle, on sec. 246, 247, 249, 252, 253, 254, 256, 292, 293, 308, 309, 311, 312, 313, 314,	1,027	1,016	.....	996	.....	850	.....
636	Rogers & Layton, on sec. 209,	.....	.....	.....	830	.....	.....	.....
"	" 210,	.....	.....	.....	.....	.....	664	.....
"	" 212,	.....	.....	.....	913	.....	.....	.....
"	" 213, 214, 215,	.....	.....	.....	664	.....	664	.....
1,172	S. B. Randall,	830	630	714	697	789	560	.....
1,111	A. W. Robinson,	788	622	705	684	775	560	.....
403	E. P. Smith & Co.,	1,079	996	1,128	913	1,034	830	.....
1,167	H. M. Severance, from 207 to 315 inc.,	1,660	1,162	1,316	1,162	1,316	996	.....

PLAN No. 1—(STILLSON'S)—BRIDGE SUPERSTRUCTURES.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Road bridge, single track with two side-walks, span 83 feet.	Road bridge, single track with extension, span 88 feet.	Road bridge, single track, extension section 219, span 84 feet.	Road bridge, single track, span 83 feet.	Road bridge, single track, section 219, span 94 feet.	Road bridge, single track, span 83 feet.	Road bridge, double track, span 83 feet.
792	I. O. Spencer, from 266 to 314,.....	.....	.....	.....	1,245	.....	996	.....
77	Olis Turner, from 266 to 314 inc.,.....	1,079	1,037	.....	954	.....	1,220	.....
683	A. B. Williams, from 215 to 229 inc. on all plans,...	977	.....	.....	807	.....	680	.....
"	"	954	.....	.....	788	.....	664	.....
854	A. D. Wood, from 207 to 314,.....	1,245	.....	.....	1,079	.....	996	.....
355	Wm. Whiteside, on sec. 212,	1,286	1,245	.....	1,203	.....	.....	.....
"	" from 207 to 218 inc.,.....	1,245	1,203	.....	1,162	.....	913	.....
1,122	J. T. Wright & Co., from 207 to 314 inc.,.....	1,660	1,245	1,410	.....	.....	1,079	1,826
1,198	Williams & Moore, from 207 to 315 inc. ....	.....	.....	.....	1,079	1,222	996	.....

PLAN No. 1—(STILLSON'S.)—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Road bridge, single track, 2 side-walks, sec. 219, span 103 feet.	Road bridge, single track, 2 side-walks, sec. 219, span 115 feet.	Road bridge, single track, 2 side-walks, sec. 212, span 85 feet.	Road bridge, single track, 2 side-walks, sec. 212, span 88 feet.	Road bridge, single track, 2 side-walks, sec. 231, span, 85 feet.	Road bridge, double track, 2 side-walks, sec. 262, span 123 feet.	Road and change bridge, span 83 feet.	Change bridge, span 83 feet.
636	Rogers & Layton,.....	.....	.....	935	968	.....	.....	.....	.....
1,172	S. B. Randall, from 207 to 245,.....	1,030	1,150	850	880	850	.....	.....	.....
1,111	A. M. Robinson, from 207 to 315, inclusive,...	978	1,092	807	836	807	.....	.....	.....
403	E. B. Smith & Co.,.....	1,339	1,495	1,105	1,144	1,105	.....	.....	.....
1,167	H. M. Severance, from 207 to 315,.....	2,060	2,300	1,700	1,760	1,700	.....	.....	.....
854	A. D. Wood, from 207 to 315,.....	1,545	1,725	1,275	1,320	1,275	.....	.....	.....
355	Wm. Whiteside, from 207 to 218, inclusive,...	.....	.....	1,275	1,364	.....	.....	.....	.....
1,122	J. T. Wright & Co., from 207 to 314,.....	2,060	2,300	1,700	1,760	1,700	3,690	.....	.....

PLAN NO. 2, (MARSH'S.)—BRIDGE SUPERSTRUCTURES.

No. of proposition.	NAMES OF BIDDERS.	Single track, 2 side-walks, span 83 ft.	Single track, span 83 feet.	Form, span 83 feet.	Double track, 2 side-walks, span 83 ft.	Single track, 2 side-walks, Dec. 219. Span 103 feet.	Single track, 2 side-walks, Dec. 219. Span 115 feet.	Single track, extension, Dec. 219. Span 84 feet.
630	Briggs & Jones, from 207 to 314, inc.,	1,909	1,494	.....	2,739	2,360	2,645	1,692
938	Chase & McGluchlin, from 219 to 314 in.,	1,539	1,132	1,093	.....	1,910	2,133	1,283
1,205	E. Corning & Co., from 207 to 314 inc.,	2,129	1,528	1,210	.....	2,642	2,950	1,730
926	J. R. Clarke, from 207 to 314 inc.,.....	2,033	1,411	.....	.....	2,523	2,817	1,593
307	Ennis & Morgan, from 207 to 314 inc.,	1,875	1,346	1,228	.....	2,327	2,599	1,524
1,114	M. A. Harrington from 292 to 314, inc.,	1,992	1,460	954	.....	.....	.....	.....
970	Isaac	1,601	1,182	1,090	.....	1,987	2,219	1,339
403	E. B. Smith & Co.,.....	2,490	1,826	1,660	.....	3,090	3,450	2,068
683	A. B. Williams, from 215 to 229 inc.,	2,241	1,701	1,577	.....	.....	.....	.....

PLAN NO. 2, (MARSH'S,)—BRIDGE SUPERSTRUCTURES—(CONTINUED.)

No. of propo- sition.	NAMES OF BIDDERS.	Single track 2 sidewalks. Sec- tion 212. Span 85 feet.	Single track, 2 sidewalks. Sec- tion 212. Span 88 feet.	Single track, 2 sidewalks. Sec- tion 231. Span 85 feet.	Amount now appropriated.
630	Briggs & Jones, from 207 to 314, inclusive,.....	1,955	2,024	1,955	4,059
1,205	E. Corning, from 207 to 314, inclusive,.....	2,181	2,258	2,181	.....
926	J. R. Clark, from 207 to 314, inclusive,.....	2,082	2,156	2,082	.....
307	Ennis & Morgan, from 207 to 314, inclusive,.....	1,921	1,988	1,921	.....
970	Isaac Hall, from 207 to 315, inclusive,.....	1,640	1,698	1,640	.....
403	E. B. Smith, Co.,.....	2,550	2,640	2,550	.....

PLAN NO. 3, (BEACH'S,)—BRIDGE SUPERSTRUCTURES.

No. of proposition.	NAMES OF BIDDERS.	Double track, 2 side-walks, section 262. Span 123 feet.	Single track, 2 side-walks. Span 85 feet.	Single track. Span 85 feet.	Single track, 2 side-walks, section 219. Span 103 feet.	Single track, 2 side-walks, section 219. Span 116 feet.	Single track, with extension, section 219. Span 94 ft.	Single track, 2 side-walks, section 231. Span 85 feet.
1,205	Erastus Corning, from 207 to 314, inclusive,	4,059	2,067	1,445	2,504	2,796	1,598	2,067
307	Ennis & Morgan, from 207 to 314, inclusive,	3,484	1,769	1,229	2,144	2,894	1,359	1,769
970	Isaac Hall, from 207 to 315, inclusive,	3,015	1,561	1,143	1,892	2,112	1,264	1,561
741	J. M. Nelson,	2,706	.....	1,020	.....	.....	1,128	.....
403	E. P. Smith,	4,551	2,210	.....	2,678	2,990	.....	2,210
683	A. B. Williams, from 215 to 229, inclusive, .....	.....	1,976	1,487	.....	.....	.....	.....

BRIDGE SUPERSTRUCTURES.

No. of proposition.	NAMES OF BIDDERS.	892	1.....]
1,205	Erastus Corning, from 207 to 314, inclusive,.....		
307	Ennis & Morgan, from 207 to 314, inclusive,.....		
970	Isaac Hall,.....		
403	E. P. Smith,.....		
683	A. B. Williams,.....		

PLAN No. 4.—(WHIPPLE'S)—BRIDGE SUPERSTRUCTURES.

No. of proposi- tion.	NAMES OF BIDDERS.	Double track, two side-walks 202, span 123 feet.	Single track, two side-walks, span 86 feet.	Frame, span 86 ft.	Single track, span 86 feet.	Single track, ex- tension section 219, span 94 ft.	Single track, two side-walks, sec. 219, span 103 ft.	Single track, two side-walks, sec. 219, span 115 ft.
630	Briggs & Jones, from 207 to 314 incl'sve,	4,059	1,870	.....	.....	.....	.....	.....
1,205	E. Corning, from 207 to 315 inclusive,	4,305	2,429	966	1,615	1,786	2,943	3,286
938	Chase & McGlachlin,*	2,952	1,190	.....	.....	.....	1,442	1,610
307	Ennis & Morgan, from 207 to 314 incl.,	3,504	1,416	.....	951	.....	1,715	1,915
1,114	M. A. Harrington, from 292 to 314,...	3,851	1,681	1,120	.....	.....	.....	.....
970	Isaac Hall, from 207 to 315,	3,234	1,352	1,014	.....	.....	1,638	1,829
741	J. M. Nelson,	3,075	1,147	.....	.....	.....	1,390	1,552
403	E. B. Smith & Co.,	3,690	2,125	1,530	.....	.....	2,575	2,875
683	A. B. Williams & Co., from 215 to 229 in.	.....	1,785	1,317	.....	.....	.....	.....
			Bill No. 4.	Bill No. 6.	Bill No. 5.			
	Squire Whipple, .....	.....	1,920	662	1,131	.....	.....	.....
	do .....	.....	1,675	.....	.....	.....	.....	.....

* From 219 to 314 on all plans inclusive.

PLAN No. 4.--(WHIPPLE'S.)--BRIDGE SUPERSTRUCTURES.--(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Single track, two side-walks, span 85 feet, sec. 212.	Single track, two side-walks, span 88 ft.	Single track, two side-walks, sec. 212, span 85 ft.
1,205	E. Corning, from 207 to 315 inclusive,.....	2,429	2,512	2,429
317	Ennis & Morgan, from 207 to 314 inclusive,.....	1,416	1,466	1,416
970	Isaac Hall,.....	1,352	1,400	1,352
741	J. M. Nelson,.....	1,147	1,188	1,147
403	E. B. Smith & Co.,.....	2,125	2,200	2,125

PLAN NO. 5.—COVERED—BRIDGE SUPERSTRUCTURES.

No. of propos'ns.	NAMES OF BIDDERS.	Double track, 2 sidewalks. Sec. 262.		Single track. Span 86 feet.		Single track, extension. Sec. 219.		Farm bridge.		Double track, 2 sidewalks.	
		Span 123 ft.		Span 85 feet.		Span 94 feet.		Span 85 feet.		Span 85 feet.	
1,044	Burchard, Bixby & Co.,.....	.....	.....	1,126	1,245	.....	.....	510	.....	.....	.....
1,082	S. W. Barnes, from sec's 207 to 315 incl.,.....	.....	.....	1,083	1,198	.....	.....	547	.....	.....	.....
1,043	Burchard, Bixby & Co., on Eastern S. D.,.....	.....	.....	1,126	.....	.....	.....	510	.....	.....	.....
21	Orville Clarke, sec's 208, 286, 287, 305, 311, 312, 313, and 314,.....	.....	.....	935	.....	.....	.....	595	.....	.....	.....
926	J. D. Clark, sec's 207 to 314 incl.,.....	.....	.....	935	.....	.....	.....	510	.....	.....	.....
1,218	H. or 10 bridges.....	.....	.....	1,190	.....	.....	.....	595	.....	.....	.....
1,211	P. for 15 bridges.....	.....	.....	1,105	.....	.....	.....	573	.....	.....	.....
1	Charles, O., only for br'gs on secs. awarded to him,	2,706	1,615	1,275	1,410	.....	.....	850	.....	.....	.....
280	R. Cummins,.....	.....	.....	888	982	.....	.....	470	.....	.....	.....
471	Ennis, Randall & Co., from 235 to 243 incl.,.....	.....	.....	807	.....	.....	.....	488	.....	.....	.....
307	Ennis & Morgan, from 207 to 314 incl.,.....	.....	.....	868	960	.....	.....	373	.....	.....	.....
48	L. A. G. B. Grant, from 207 to 262,.....	.....	.....	1,190	.....	.....	.....	850	.....	.....	.....
48	do do 266 to 314,.....	.....	.....	1,105	.....	.....	.....	765	.....	.....	.....
1,135	Green & Boyce, from 239 to 245 incl.,.....	.....	.....	.....	425	.....	.....	.....	.....	.....	.....
1,114	M. A. Harrington, from 292 to 314 incl.,.....	.....	.....	680	752	.....	.....	425	.....	.....	.....
970	J. Hall, from 207 to 315 incl.,.....	.....	.....	927	1,025	.....	.....	435	.....	.....	.....
922	L. J. Hunt, from 266 to 280,.....	.....	.....	850	.....	.....	.....	425	.....	.....	.....
977	Geo. Law, on sec. awarded to him,.....	2,706	1,615	1,275	1,410	.....	.....	850	.....	.....	.....
741	J. M. Nelson ..... .....	.....	.....	850	904	.....	.....	.....	.....	.....	.....

PLAN No. 5—COVERED—BRIDGE SUPERSTRUCTURES.

No. of propos'n.	NAMES OF BIDDERS.	Double track, 2 sidewalks. Sec. 262.	Double track.	Single track.	Single track, extension. Sec. 219.	Farm bridge.	Double track, 2 sidewalks.
		Span 128 ft.	Span 86 feet.	Span 85 feet.	Span 94 feet.	Span 85 feet.	Span 85 feet.
386	N. Osburn, from 267 to 315 incl.,	.....	.....	1,062	1,175	510	.....
403	E. B. Smith & Co.,	.....	.....	1,105	1,222	765	.....
505	M. C. Storr.	.....	1,445	1,105	1,223	765	1,700
77	O. 266 to 314,	.....	.....	1,147	.....	765	.....
683	A. B. Williams & Co., from 215 to 229 incl.,	.....	.....	892	..	595	.....

BRIDGE SUPERSTRUCTURES.

LOCATION AND KIND OF BRIDGES.	Spans, feet.	Plan of Chase & Hurdnutt. Prop. 10.*	Stanley's plan. Prop. 57.	Cortling's plan. Prop. 1,205.	Reynolds's plan. Prop. 926.†	Ingersoll's plan. Prop. 532.
Single track,.....	83	958	1,200	1,353	994	.....
do extension, sec. 219,.....	94	1,185	.....	.....	1,099	.....
Double track,.....	85	1,555	.....	.....	.....	.....
Single track, 2 side walks,.....	83	1,120	1,475	.....	1,275	.....
Double track 2 side walks, on sec. 262 Rochester,.....	123	2,484	.....	.....	2,448	.....
Farm bridge,.....	83	788	.....	865	721	.....
Road, single track, with 2 sidewalks on sec. 219,.....	103	1,390	.....	.....	1,545	.....
do do do 219,.....	115	1,552	.....	.....	1,725	.....
do do do 212,.....	85	1,147	.....	.....	1,275	.....
do do do 212,.....	88	1,118	.....	.....	1,320	.....
do do do 281,.....	85	1,147	.....	.....	1,275	.....
Bridge 12 ft. wide,.....	85	.....	.....	.....	1,530	.....
Single track 17 ft. wide,.....	85	.....	.....	.....	1,615	.....

* From Section 207 to 314.

† These amounts include the cost of suspension rods on cables which makes the length of the superstructure 140 feet. From 207 to 314 inclusive.

‡ From 207 to 315 inclusive.

COST of St. Paul Street bridge, Rochester, including superstructure, masonry, &c., on plans Nos. 2, 3 and 4.

NAMES OF BIDDERS.	Plan No. 2, Masonry.	Plan No. 3, Beech's.	Plan No. 4, Whipple's.
Briggs & Jones,.....	4,773	.....	6,804
Isaac Hall,.....	.....	5,761	5,980
M. A. Harrington,.....	.....	.....	6,596
Chase & McGlavin,.....	.....	.....	5,697
Ennis & Morgan,.....	.....	6,230	6,249
E. B. Smith & Co.,.....	.....	7,296	6,435
Erastus Corning & Co.,.....	.....	6,804	.....
J. M. Nelson,.....	.....	5,451	5,820
Estimated cost of abutments,.....		\$2,745	\$2,745

BRIDGE ABUTMENTS.

No. of proposition.	NAMES OF BIDDERS.	No. 293.		No. 1.--294.		No. 2.--294.		No. 295.		No. 297.		No. 298.	
		\$1,280		\$1,597		\$1,597		\$1,597		\$1,280		\$1,280	
	Engineers' estimate,.....	\$1,280		\$1,597		\$1,597		\$1,597		\$1,280		\$1,280	
78	Burrill, T.,.....	1,449		1,720		1,720		1,720		1,423		1,437	
1,042	Burchard, B. & Co.,.....	1,264		1,531		1,531		1,531		1,264		1,264	
315	Butler & Stanbrough,.....	1,346		1,561		1,561		1,561		1,346		1,346	
50	Colton, J. C.,.....	1,493		1,779		1,779		1,779		1,493		1,493	
798	Church, R.,.....	1,271		1,528		1,528		1,528		1,271		1,271	
651	Cady & Butler,.....	1,572		1,883		1,883		1,779		1,572		1,572	
322	Chamberlain & Bradley,.....	1,086		1,319		1,319		1,319		1,086		1,086	
943	Chase, Levi,.....	1,347		1,610		1,610		1,613		1,347		1,347	
869	Candee, Reed & Co.,.....	1,344		1,649		1,649		1,649		1,344		1,344	
909	Colt, H. V.,.....	1,481		1,772		1,772		1,772		1,481		1,481	
581	Chamberlain & Edgerton,.....	1,103		1,546		1,546		1,346		1,103		1,103	
4	Charliff, C.,.....	1,655		1,975		1,975		1,975		1,655		1,655	
806	Ennis, W. H.,.....	1,317		1,589		1,589		1,614		1,338		1,338	
409	Ellicott, J.,.....	1,300		1,569		1,569		1,569		1,300		1,300	
453	Field & Munger,.....	1,286		1,540		1,540		1,540		1,286		1,286	
47	Grant, L. A. G. B.,.....	1,452		1,744		1,744		1,744		1,452		1,452	
174	Hard, Gideon & Co.,.....	1,964		2,343		2,343		2,137		1,785		1,612	
1,113	Harrington, M. A.,.....	1,142		1,383		1,383		1,383		1,142		1,142	
279	Hinds & Copeland,.....	1,343		1,579		1,579		1,579		1,343		1,343	
242	Hughes, J. B.,.....	1,269		1,507		1,507		1,507		1,269		1,313	

BRIDGE ABUTMENTS ON SECTIONS.—(CONTINUED.)

No. of petition.	NAMES OF BIDDERS.		No. 293.	
	Engineers' estimate,		\$1,280	
150	Jackson, J. & Co.,	1,681	1,404	1,681
479	King, J. B.,	1,576	1,357	1,576
1,015	Learned, E. & Co.,	1,702	1,702	2,012
892	Lee, Britton & Co.,	1,539	1,539	1,861
1,154	Mills & Harwood,	1,286	1,286	1,547
1,197	Moore & Williams,	1,463	1,463	1,759
1,069	Nichols, J. H.,	1,385	1,385	1,681
573	Peck, L. J.,	1,009	1,009	1,220
531	Pringle, B.,	1,280	1,280	1,743
356	Reed, E. S.,	1,450	1,450	1,507
588	Ryan & Swan,	1,243	1,243	1,312
696	Sawyer, J.,	1,312	1,312	1,576
1,007	Smith, Moore & Co.,	1,520	1,520	1,667
661	Soper & Field,	1,239	1,239	1,777
991	J. O. Spencer,	1,533	1,533	1,835
1,168	Severance, H. M.,	1,260	1,260	1,542
75	Turner, Otis,	1,464	1,464	1,750
1,000	Walker, Wm.,	1,197	1,197	1,432
1,118	Wright, J. T.,	1,480	1,480	1,477
841	Wood & Clarke,	1,371	1,371	1,646
547	Wagner & Levings,	1,254	1,254	2,518

BRIDGE ABUTMENTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 308.	No. 309.	No. 311.	No. 312.	No. 1.—313.	No. 2.—313.
	Engineers' estimate,	\$1,280	\$1,597	\$1,597	\$1,280	\$1,597	\$1,280
78	Burrill, T.,	1,392	1,650	1,603	1,351	1,603	1,351
1,040	Burchard, B.,	1,264	1,531	1,531	1,264	1,531	1,264
353	Brown, Geo., .....	.....	.....	.....	1,600	.....	.....
315	Butler & Stanbrough,	1,346	1,561	1,561	1,346	1,561	1,346
140	Collins, A.,	1,608	1,912	1,912	1,608	1,912	1,608
150	Colton, J. C.,	1,493	1,779	1,779	1,493	1,779	1,493
798	Church, R.,	1,271	1,528	1,528	1,271	1,528	1,271
24	Clarke, O., .....	.....	.....	1,850	1,271	1,850	1,271
651	Cadý & Butler,	1,572	1,883	1,883	1,271	1,779	1,271
322	Chamberlain & Bradley,	1,086	1,319	1,319	1,086	1,319	1,086
943	Chase, Levi,	943	1,347	1,613	1,613	1,613	1,347
869	Oandee, Reed & Co.,	1,344	1,649	1,649	1,344	1,649	1,344
909	Colt, H. V.,	1,481	1,772	1,772	1,481	1,772	1,481
581	Chamberlain & Edgerton,	1,103	1,346	1,346	1,103	1,346	1,103
4	Charliff, O.,	1,655	1,975	1,975	1,655	1,975	1,655
622	Danold, C. A.,	1,079	1,302	.....	.....	1,306	986
409	Ellicott, J. & Co.,	1,300	1,569	1,569	1,300	1,569	1,300
453	Field & Munger,	1,286	1,540	1,540	1,286	1,540	1,286
47	Grant, L. A. G. B.,	1,452	1,744	1,744	1,452	1,744	1,452
389	Hopkins & Weeks, .....	.....	.....	1,841	.....	.....	.....

BRIDGE ABETMENTS ON SECTIONS—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	No. 308.	No. 309.	No. 311.	No. 312.	No. 1.—313.	No. 2.—313.
	Engineers' estimate,.....	\$1,280	\$1,597	\$1,597	\$1,280	\$1,597	\$1,280
536	Hard, G.,.....	1,183	1,428	.....	.....	.....	.....
1,113	Harrington, M. A.,.....	1,142	1,383	1,383	1,142	1,383	1,142
279	Hinds & Copeland,.....	.....	.....	1,579	1,343	.....	.....
242	Hughes, J. B.,.....	1,269	1,586	1,586	1,507	1,586	1,507
692	Hart, J. N.,.....	1,707	2,009	.....	.....	.....	.....
414	Hilton, J. N. K.,.....	.....	.....	1,401	1,169	.....	.....
71	Jackson, Jas. Jr.,.....	1,354	1,655	1,655	1,354	1,655	1,354
150	Jackson, J. & Co.,.....	1,404	1,681	1,681	1,404	1,681	1,404
479	King, J. B.,.....	.....	.....	1,627	.....	.....	.....
564.	Kneeland, S. W.,.....	.....	.....	1,302	1,079	1,302	1,079
1,015	Learned, E. & Co.,.....	1,702	2,012	2,012	1,702	2,012	1,702
892	Lee, Britton & Co.,.....	1,539	1,861	1,861	1,539	1,861	1,539
1,154	Mills & Harwood,.....	1,286	1,547	1,547	1,286	1,549	1,286
1,197	Moore & Williams,.....	1,463	1,759	1,759	1,463	1,759	1,463
1,069	Nichols J. H.,.....	1,387	1,681	1,681	1,387	1,681	1,387
573	Peck, L. J.,.....	1,009	1,220	1,220	1,009	1,220	1,009
88	Phillips, L. H.,.....	.....	.....	1,373	1,186	.....	.....
531	Pringle, R.,.....	1,280	1,537	1,537	1,280	1,537	1,280
588	Ryan & Swan,.....	1,243	1,507	1,507	1,243	1,507	1,243
356	Reid, E. S.,.....	1,450	1,743	.....	.....	.....	.....
1,007	Smith, Moore & Co.,.....	1,520	1,513	1,513	1,520	1,513	1,520

BIDS FOR WORK

Remaining to be done on the Genesee Valley canal.

No. of proposition.	NAMES OF PROPOSERS.	Lock 105.		Lock 106.	
		\$11,244		\$15,995	
	Engineer's estimate,	\$12,126 80		\$16,751 86	
16	Richard Church,	14,578 00		18,929 50	
28	C. T. Chamberlain & Co.,	10,694 60		15,344 05	
59	Abram Varnum,	11,954 60		15,507 90	
40	Chester,	16,217 50		14,377 10	
129	James,	10,620 60		14,717 50	
152	William Kisdale & Co.,	12,694 90		16,151 20	
178	Jeremiah Holmes,	10,286 55		.....
181	James Thomson & Co.,	10,670 30		14,952 05	
194	Utley Spencer,	12,818 70		16,795 90	
196	Daniel Judd & Co.,	12,182 00		15,083 40	
203	John R. McArthur & Co.,	10,945 00		17,366 20	
296	Andrew Malcom,	11,021 10		15,195 60	
334	Joseph Fleming & Co.,	13,680 90		.....
441	Allen L. Burr & Co.,	10,703 96		14,724 20	
486	Joseph W. Britton & Co.,	12,356 60		14,928 60	
576	James McMurrey & Co.,	8,439 00		11,175 60	
726	Peter C. Ward,	11,387 00		14,969 00	
741	Theodore G. Mills & Co.,	11,402 20		14,629 50	
766	Hiram Brintnall & Co.,	11,447 60		15,766 70	
773	Jesse Peterson,				

777	William Mills,	11,762 00	16,195 30
736	Tho's A. E. Lyman & Co.,	13,342 20	16,241 90
828	Edson Hammond,	13,789 00	17,282 50
852	Edwin W. Park,	10,965 25	15,017 55
871	Russell Martin & Co.,	10,573 50	12,955 60
874	Cha's H. Sherrill & Co.,	12,998 40	18,524 60
917	Samuel J. Hunt,	12,635 60	16,260 60
876	Andrew Kingsley & Co.,	12,404 30	16,162 90
940	Joseph Ditto & Co.,	11,262 20	15,020 60
963	Jacob A. Mead,	13,274 00	16,681 70
971	Isaac Hall,	93,016 20	11,791 70
988	W. A. Kirkpatrick,	11,739 00	15,891 00
979	James P. Rounselle,	10,839 00	14,443 80
1,005	Alonzo Hawley,	12,710 30	16,612 30
1,008	Calvin B. Lawrence & Co.,	12,386 05	16,184 25
1,018	Wm. N. Marsh,	12,292 20	15,249 20
1,025	Henry V. Colt,	12,777 40	.....
1,096	H. M. Severance,	11,027 80	15,784 60
1,104	Nelson Hewitt,	11,259 40	16,337 40
1,135	Mahlon L. Ross,	11,862 55	16,028 75
1,131	Gilbert Peterson & Co.,	12,587 10	16,000 00
1,147	George Minard,	11,661 60	16,995 60
1,190	Tho's R. Brayton & Co.,	17,135 20	22,125 30
1,230	Robert F. F. Laing,	10,048 28	12,228 11

OIL CREEK AND ROCKVILLE RESERVOIRS.

806

[Assembly

No. of Proposition.	NAMES OF BIDDERS.	Oil Creek.		Rockville.	
		\$46,500 00		\$3,176 00	
	Engineers' estimate,				
9	Klingston & Hitchcock,	41,117 55		2,305 00	
14	Henry V. Colt,	48,240 00		.....
17	Richard Church,	56,667 00		3,684 70	
35	Thomas W. Warner,	40,772 00		3,462 00	
29	C. T. Chamberlain & Co.,	45,693 00		.....
61	Abram Vernam,	46,316 00		.....
126	James Napier & Co., .....	.....		2,776 00	
153	William Ridsdale & Co., .....	.....		2,826 00	
159	Orange Dayton & Co.,	68,987 00		.....
164	Thomas H. Luckey,	49,519 00		.....
179	Jeremiah Holmes,	38,951 00		.....
180	Thomson & Co.,	44,872 00		.....
199	Judd & Co.,	80,790 00		.....
210	Hughes,	45,895 00		3,735 00	
337	John Histed,	43,169 00		2,262 00	
382	Cyrus Rose & Co.,	49,755 00		3,794 00	
439	Allen L. Burr & Co.,	49,740 00		.....
444	John R. McArthur & Co.,	41,907 00		3,479 00	
446	Linus Jones Peck,	68,891 00		4,960 00	
614	Isaac N. Hart & Co.,	79,979 00		5,150 00	
744	James A. Willard,	67,839 00		11,131 00	

776	Jesse Peterson,.....	44,708 00	3,020 00
738	Isaac O. Ball,.....	75,293 00	11,976 00
779	W. Mills,.....	50,496 00	3,914 00
829	Edson Hammond,.....	87,637 00	2,805 00
851	Edwin W. Park,.....	37,639 00	.....
787	Thomas A. E. Lyman, & Co.,.....	51,471 00	3,091 00
875	Charles H. Sherrill & Co.,.....	44,129 00	.....
877	Andrew Kingsley & Co.,.....	46,418 00	3,279 00
961	Jacob A. Mead,.....	37,136 00	2,805 00
981	James C. Rounselle,.....	47,127 00	3,383 00
990	William A. Kirkpatrick,.....	51,455 00	.....
1,003	Alonzo Hawley,.....	30,470 00	.....
1,019	William N. Marsh,.....	46,894 00	2,998 00
1,073	Calvin B. Lawrence & Co.,.....	51,060 00	.....
1,004	Hugh M. Lawrence,.....	46,857 00	3,158 00
1,100	G. L. Walker,.....	47,066 00	.....
1,108	Nelson Hewitt,.....	45,800 00	2,869 00
1,124	Mahlon L. Ross,.....	52,406 00	3,061 00
1,133	Gilbert Peterson & Co.,.....	56,867 00	3,235 00
1,163	Joseph Ditto & Co.,.....	51,295 00	3,998 00
1,186	Joseph Wells,.....	42,700 00	.....
1,204	David H. Richardson,.....	52,449 00	.....

SECTIONS Nos. 91, 98, 107 G. V. CANAL AND ISCHUA FEEDER.

No. of proposition.	NAMES OF BIDDERS.	Section 91.	Section 98.	Section 107.	Ischua Feeder.
	Engineers' estimate,.....	\$8,942	\$13,421	\$10,579	\$19,253
7	Vincent & Hitchcock,.....	8,998	11,810	9,793	14,925
20	.....	10,291	14,956	11,431	22,049
29	C. T. Chamberlain & Co.,.....	9,718	14,490	10,956	20,416
36	Thomas W. Warner,.....	.....	11,305	.....	.....
62	Abram Vernam,.....	11,221	27,668	11,104	19,485
129	Jas. Napier & Co.,.....	9,260	11,189	9,220	16,421
132	Holley Spencer,.....	.....	.....	9,908	.....
151	William Ridsdale & Co.,.....	9,260	12,080	10,844	15,506
161	Orange W. Dayton & Co.,.....	9,012	19,164	.....	168,391
163	Theodore H. Luckey,.....	.....	10,846	.....	.....
177	Jeremiah Holmes,.....	9,625	11,623	10,596	.....
198	Daniel Judd & Co.,.....	.....	12,140	9,170	19,650
202	John R. McArthur & Co.,.....	11,236	12,229	8,510	16,419
333	Patrick Daly,.....	11,278	12,462	11,635	.....
335	Joseph Fleming & Co.,.....	.....	.....	10,328	.....
336	John Histed,.....	9,442	.....	.....	.....
378	Cyrus Rose & Co.,.....	8,255	9,724	8,478	30,861
440	Allen L. Burr & Co.,.....	11,209	25,106	12,360	22,159
445	Linus Jones Peck,.....	14,204	18,674	18,244	27,077
487	Joseph W. Britton & Co.,.....	.....	.....	9,548	.....
521	James McMurray & Co.,.....	.....	11,110	10,864	.....

727	P. C. Ward,.....	9,071	11,024	9,904	.....
778	William Mills,.....	10,573	13,290	10,940	20,851
737	Isaac Ball,.....	.....	46,688	.....	.....
742	Theo. G. Mills & Co.,.....	.....	11,740	8,760	.....
743	James A. Willard,.....	.....	39,569	.....	.....
765	Hiram Brintnall & Co.,.....	.....	.....	11,924	.....
771	Calvin B. Lawrence & Co.,.....	.....	.....	11,578	.....
775	Jesse Peterson,.....	10,063	.....	10,268	.....
204	James Thomson & Co.,.....	11,236	12,229	8,510	.....
788	Thomas A. E. Lyman & Co.,.....	11,081	13,350	11,270	20,952
853	E. W. Park,.....	10,874	.....	10,548	15,548
870	Russell Martin & Co.,.....	.....	.....	11,776	.....
873	Charles H. Sherrill & Co.,.....	11,430	.....	14,042	.....
830	Edson Hammond,.....	9,382	11,086	10,794	15,947
878	Andrew Kingsley & Co.,.....	11,787	12,930	11,154	.....
918	Samuel Hunt,.....	9,165	.....	10,474	.....
931	James Scott & Co.,.....	.....	13,620	9,515	24,785
941	Walter S. Bailey,.....	9,530	11,470	10,686	.....
962	Jacob	9,382	11,086	10,794	15,947
969	Isaac I	8,084	9,580	8,446	.....
978	James C.ounsiville,.....	10,508	13,201	12,758	.....
990	W. A. Kirkpatrick,.....	10,595	12,545	11,256	21,553
1,003	Alonzo Hawley,.....	12,030	13,710	10,641	20,312
1,019	William N. Marsh,.....	9,289	10,970	11,660	17,110
1,095	H. M. Severance,.....	10,303	13,121	10,459	19,279
1,099	Gideon S. Walker,.....	.....	11,866	8,553	16,884
1,106	Nelson Hewitt,.....	.....	13,826	10,568	.....

SECTIONS No. 91, 98, 107 G. V. CANAL AND ISCHUA FEEDER.—(CONTINUED.)

No. of proposition.	NAMES OF BIDDERS.	Section 91.	Section 98.	Ischna Feeder.
	Engineers' estimate,.....	\$8,942	\$13,421	\$19,253
1, 126	M. L. Ross,.....	10,906	13,907	23,113
1, 132	Gilbert Peterson & Co., .....	.....	13,565	.....
1, 151	George Minard,	9,486	13,276	20,596
1, 186-7	Joseph Wells,.....	11,117	12,187	18,283
1, 191	Thomas R. Brayton & Co.,.....	11,873	14,966	28,788
1, 231	Robert Laing,.....	.....	10,748	17,321

ISCHUA AQUEDUCT—GENESEE VALLEY CANAL.

Engineers' estimate,..... \$3,660

No. of proposition.	Names of Bidders.	Amount of bid.
18	Richard Church,.....	\$4,161
30	C. T. Chamberlain & Co.,.....	5,338
60	Abram Vernam,.....	3,963
154	Wm. Ridsdale & Co.,	3,770
160	Orange W. Dayton & Co.,.....	3,752
197	Daniel Judd & Co.,	4,056
380	Cyrus Rose & Co.,	3,779
525	James McMurrey & Co,	3,228
539	John R. McArthur & Co.,.....	3,572
772	Jesse Peterson,.....	3,541
785	Thos. A. E. Lyman & Co.,	4,025
831	Edson Hammond,.....	3,571
930	James Scott & Co.,.....	5,224
980	James P. Rounsville,	3,387
989	W. A. Kirkpatrick,	4,336
1,004	Alonzo Hawley,.....	4,827
1,092	H. M. Severence,.....	3,536
1,107	Nelson Hewitt,.....	3,519
1,134	Gilbert Peterson & Co.,.....	4,306
1,162	Jas. Ditto & Co.,....	4,453
1,150	George Minard,	3,791
1,185	Joseph Wells,.....	4,074
1,229	Robert F. Laing,.....	3,634

BRIDGES ON SECTION NO: 107.—G. V. CANAL.

Engineers' estimate,..... \$1,378

9	Daniel Bloom,	\$1,672
19	Richard Church,	1,610
176	Jeremiah Holmes,.....	952
201	John R. McArthur & Co.,	1,574
381	Cyrus Rose & Co.,	1,573
438	Allen L. Burr & Co.,.....	1,571
725	Peter C. Ward,.....	810
923	Samuel L. Hunt,	1,231

No. of proposition.	Names of Bidders.	Amount of bid.
939	Wm. H. Chase,.....	1,298
982	J. P. Rounsville,.....	1,033
1,093	H. M. Severence,.....	1,465
1,105	Nelson Hewitt,.....	1,423
1,130	Gilbert Peterson & Co.,	1,930
1,148	George Minard,	1,501
1,188	Joseph Mills,.....	1,746

ERIE CANAL ENLARGEMENT.

Western sub-division of Western Division.

SECTION No. 316.

Engineers' estimate,	\$25,565	\$5,410	\$2,253
Names of Bidders.	Sections.	Culverts.	Bridge Abut's.
Collins & Hunter,.....	23,140	5,340	
Mills & Harwood,	23,720		
Angus P. McDonald,.....	24,080		
Horace Meigs,.....	24,100		
Henry Cady,.....	24,270	5,695	2,585
Jonas Ingraham,.....	24,490	5,705	
Barton & O'Maley,.....	24,555	5,261	
Isaac N. Stage,.....	24,770	4,473	2,550
John H. Nichols,.....	24,960		
T. & W. Mills,	25,020		
S. W. Kneeland,.....	25,030	3,833	1,846
Wm. H. Scott,	25,120	6,260	2,457
Martindale & Ferrell,	25,150		2,435
John M. K. Hilton,	25,155	4,392	1,934
D. S. Morgan,.....	25,160		
John Hayes,.....	25,355		
Colton & Aikin,.....	25,680	5,375	2,410
Wm. Candee & Co.,.....	25,730		
John Vernam & Co.,.....	25,800		
Oliver Charlick,.....	25,880		2,934
Geo. H. Boughton & Co.,.....	26,080		2,209
Nelson Hewitt,.....	26,140		2,439
Wagner & Levings,.....	26,170		2,190
Chamberlain & Edgerton,.....	26,360		1,856
H. Blodgett & Co.,.....	26,585	5,546	
Ryan & Swan,	26,670	5,355	2,092
Ellicott & Bentley,	26,890		2,190

Names of Builders.	Sections.	Culverts.	Bridge abut's.
Horatio N. Hewes,.....	27,080	5,710	2,097
Hawley & Barton,.....	27,160	5,100	1,885
Otis Turner,.....	27,160	4,356	2,434
James Jackson, Jr.,.....	27,180	5,667	2,317
Guy Sherwood,.....	27,705	5,354	2,708
J. P. Smith,	27,850		
Walter J. Church,.....	27,950		
Mahlon L. Ross,.....	28,020	5,228	2,396
Truxton Burrill,.....	28,130		
Thomas King,.....	28,265	4,665	2,677
James Oswald & Co.,	28,340		
John T. Wright & Co.,.....	28,560		2,594
Judson W. Sherman,.....	28,560		
Richard Church,	28,560		
Thomas A. E. Lyman & Co.,..	28,564		
George M. Lanman,	28,850	6,195	2,547
Kingsley & James,.....	28,940		
Parmalee, White & Co.,	29,116	4,413	2,239
Levi Allen,.....	29,370		
L. A. G. B. Grant,.....	29,610		2,380
Charles Porter & Co.,.....	29,920	6,893	2,841
Hugh M. Severance,.....	30,510		2,190
Bradley Sherman,.....	30,660		
Sam'l & John Everett,.....	31,720		
Cleary & Smith,.....	32,540		
Brainard & Edgerton,.....	55,880		
Daniels & Douglass,		5,592	
Gideon Hard,.....		4,731	2,116
Henry S. Wells,.....		5,167	
B. & I. Carpenter,		5,310	2,245
Chamberlain & Bradley,.....			1,854
M. A. Harrington,.. ..			1,956
Linus Jones Peck,.....			2,052
Field & Munger,.....			2,136
I. B. Hughes,.....			2,384
Jackson & Hitchins,.....			2,383
Asa D. Wood & Co.,.....			2,315
Edward Learned & Co.,.....			2,712
James O. Spencer,.....			2,717

SECTION NO. 317.

Engineers' estimate,	<u>\$26,291</u>	<u>\$1,428</u>
Names of Bidders.	Sections.	Calverts.
Hunter & Collins,	21,105	1,679
Horace Meigs,	21,648	
Mills & Harwood,	22,305	
Angus P. McDonald,	22,460	
David H. Danolds,	22,465	1,161
Barton & O'Maley,	22,645	1,596
Henry Cady,	22,768	1,722
John H. Nichols,	23,025	
Jonas Ingraham,	23,060	1,673
Cha's A. Danolds,	23,265	1,156
Martindale & Ferrell,	23,270	
T. & Wm. Mills,	23,490	
John M. K. Hilton,	23,505	1,342
D. S. Morgan,	23,565	
Wm. H. Scott,	23,720	2,245
John Hayes,	23,770	
Horatio N. Hewes,	23,735	1,711
Nelson Hewitt,	23,830	
Wm. Candee & Co.,	23,850	
Colton & Aikin,	23,865	1,501
John Vernam & Co.,	23,965	
Hiram Baker,	23,985	1,699
Oliver Charlick, ...	24,012	
Isaac N. Stage,	24,215	1,059
Geo. H. Boughton & Co., ...	24,275	
Cha's A. Harrington & Co.,	24,345	1,505
David Wagner & Co.,	24,385	
Ryan & Swan,	24,457	1,641
Chamberlain & Edgerton,	24,466	
James Jackson, Jr.,	24,732	1,659
Heman Blodgett & Co.,	24,784	1,619
Ellicott & Bentley,	24,969	
Otis Turner,	25,180	1,561
Kingsley & James,	25,330	
Hawley & Barton,	25,655	1,392
Walter J. Church,	25,865	
Mahlon L. Ross,	25,920	1,625
J. P. Smith,	25,930	
Guy Sherwood,	26,157	1,477
John T. Wright & Co.,	26,330	
Judson W. Sherman,	26,330	

Names of Bidders.	Sections.	Culverts.
Richard Church,	26,330	
Thomas King,	26,525	1,305
L. A. G. B. Grant,	26,675	
Truxton Burrill,	26,765	
James Oswald & Co.,	27,210	
Parmelee, White & Co.,	27,300	1,418
Geo. M. Lanman,	27,335	1,917
Charles Porter & Co.,	27,520	1,888
Levi Allen,	27,765	
Samuel & John Everett,	28,320	
Hugh M. Severance,	28,429	
Bradley Sherman,	28,444	
Thomas A. E. Lyman & Co.,	30,433	
Wm. O'leary & Cha's Smith,	30,620	
Brainard & Edgerton,	53,375	
B. & J. Carpenter,		1,418
Henry S. Wells,		1,464
Daniels & Douglass,		1,720

SECTION No. 318.

Engineers' estimate,	<u>\$39,037</u>	<u>\$17,498</u>
----------------------------	-----------------	-----------------

Names of Bidders.	Sections.	Culverts.
Theo. & William Mills,	\$33,475	
Horace Meigs,	33,650	
Thompson & Nelson,	35,452	
Franklin Spaulding & Co.,	35,710	18,254
John M. K. Hilton,	36,135	14,664
Sheldon Bronson,	36,440	
Mills & Harwood,	36,720	
Barton & O'Maley,	37,420	15,199
Chas A. Danolds,	37,540	14,625
Henry Cady,	37,635	19,615
Angus P. McDonald,	37,800	
Horatio N. Hewes,	37,885	16,486
John Hayes,	38,175	
Hunter & Collins,	38,565	20,126
Linus Jones Peck,	38,650	
Jonas Ingraham,	38,750	19,189
D. S. Morgan,	38,850	
Frisbee & Britt,	39,250	
John H. Nichols,	39,430	
William Candee & Co.,	39,450	

Names of Bidders.	Sections.	Culverts.
Colton & Aikin,	39,710	17,508
Hawley & Barton,	39,750	16,256
William H. Scott,	39,780	22,930
James Jackson, jun.,	40,020	17,706
Ryan & Swan,	40,290	16,018
Orville Clark,	40,620	18,705
Chas. Porter & Co.,	40,730	21,384
John Vernam & Co.,	40,890	
Oliver Charlick,	41,180	
Kingsley & James,	41,290	
Ellicott & Bentley,	41,335	
Hiram Baker,	41,350	18,720
Chas. A. Harrington & Co.,	41,515	18,672
N. Osborn,	41,580	
George H. Boughton & Co.,	42,150	
Heman Blodgett & Co.,	42,340	18,728
Parmelee, White & Co.,	42,362	15,595
Nathan G. King & Co.,	42,465	18,798
Gideon Hard,	42,465	16,993
Sutton & Phillips,	42,500	17,940
D. P. Smith,	42,590	
Isaac N. Stage,	42,820	15,586
Mahlon L. Ross,	42,830	17,423
Otis Turner,	42,850	19,837
Nelson Hewitt,	42,980	20,264
Thomas King,	42,995	15,345
Alexander H. Schultz,	43,150	
Thomas A. E. Lyman & Co.,	43,150	
Levi Allen,	43,330	
George M. Lanman,	43,390	21,051
James Oswald & Co.,	44,170	
Milton Courtright,	44,485	17,948
Saml. & John Everett,	44,630	
Truxton Burrell,	45,100	
L. A. G. B. Grant,	45,100	
Guy Sherwood,	45,370	
Asa W. Douglass & Co.,	45,410	
S. Pierce & Co.,	45,595	17,447
Chamberlain & Edgerton,	45,460	
William Scott,	46,960	
John T. Wright & Co.,	47,700	
Judson W. Sherman,	47,700	
Richard Church,	47,700	
Cleary & Smith,	47,770	
Orin Britt,	47,862	
G. D. & W. G. Goodale,	49,940	
Hugh M. Severance,	50,440	
Bradley Sherman,	50,700	

	Sections.	Culverts.
Walter I. Church,.....	56,340	
Brainard & Egerton,.....	71,090	
B. & J. Carpenter,.....	.....	16,175
Henry S. Wells,.....	.....	17,350
Daniels & Douglass,.....	.....	19,642

SECTION No. 319.

Engineers' estimate,.....	<u>\$36,015</u>	<u>\$4,956</u>	<u>\$3,760</u>
Names of Bidders.	Sections.	Culverts.	Bridge abut.
Frisbie & Britt,.....	\$28,365		
J. Thompson & Wm. J. Nelson,	29,546		
Barker & Talbot,	29,920		
T. & W. Mills,	32,010		
Mills & Harwood,.....	32,180		
D. S. Morgan,.....	32,320		
Chas. A. Danolds,.....	23,960	\$4,292	\$3,149
Wm. Candee, & Co.,.....	33,420		
Barton & O'Maley,.....	33,470	4,910	
Angus P. McDanald,.....	33,480		
Nelson Hewit,.....	34,170	5,629	4,292
Jonas Ingraham & Co.,.....	34,245	5,716	
Orville Clark,.....	34,500	4,873	4,540
Samuel C. Holden,.....	34,760		3,875
John H. Nichols,	34,830		
N. Osborn,.....	35,080		
Orrin Britt,.....	35,150		
James Jackson, Jr.,	35,510	5,654	4,105
Wm. H. Scott,	35,555	6,370	4,280
Guy Sherwood,.....	35,650		
Oliver Charlick,.....	35,750		5,142
Hiram Baker,.....	36,150	4,921	4,150
Sheldon Bronson,.....	36,180		
John Hayes,	36,180		
G. H. Boughton & Co.,	36,200		3,885
Hawley & Barton,	36,400	4,959	3,280
Chamberlain & Edgerton,	36,440		3,265
Ryan & Swan,.....	36,710	5,527	3,645
Heman Blodgett & Co.,.....	36,760	4,925	
Nathan G. King & Co.,.....	36,820	4,977	
Colton & Aikin,	36,920	5,502	4,110
Horace Meigs,.....	36,930		
Mahlon L. Ross,.....	37,050	5,013	4,218

Names of Bidders.	Sections.	Culverts.	Bridge abut.
Isaac N. Stage,	37,080	3,971	4,180
Ellicott & Bentley,	37,850		3,820
Parmelee, White & Co.,	37,916	1,267	3,905
John Vernam & Co.,	37,960		
Walter I. Church,	38,000		
Richard Church,	38,030		
Judson W. Sherman,	38,030		
John T. Wright & Co.,	38,030		4,542
Truxton Burrill,	38,370		
L. A. G. B. Grant, ..	38,420		4,140
J. P. Smith,	38,420		
Thomas King,	38,470	4,815	4,755
Geo. M. Lanman,	38,650	5,824	4,376
Horatio N. Hewes,	38,680	6,482	3,658
Henry Cady,	38,765	5,257	4,580
Milton Courtwright,	39,100	6,232	
Sutton & Phillips, ...	39,170	5,400	3,300
Linus Jones Peck,	39,740		3,624
Daniels & Douglass,	40,000	4,662	
Chs. Porter & Co.,	41,020	6,571	5,048
Bradley Sherman,	41,490		
Levi Allen,	41,750		
Saml. & John Everett,	41,950		
Otis Turner,	42,010	5,220	4,237
Hugh M. Severance,	42,660		3,860
James Oswald & Co.,	42,980		
Cleary & Smith,	43,180		
G. D. & W. G. Goodale,	47,180		
Brainard & Edgerton,	69,880		
Henry S. Wells, ..		5,030	
Chamberlain & Bradley,			3,257
Wagner & Levings,			3,858
Field & Munger,			3,698
B. & J. Carpenter,			3,960
Asa D. Wood & Co.,			4,000
Edward Learned & Co.,			4,545
Jackson & Hitchins,			4,123
J. B. Hughes,			4,192
James O. Spencer, ..			4,762
M. A. Harrington,			3,432

SECTION No. 320.

Engineers' estimate,	<u>\$47,346</u>	<u>\$1,880</u>
--------------------------------	-----------------	----------------

Names of Bidders.	Sections.	Br. Abutm'ts.
Harvey E. Williams,	\$20,050	
Robert Ennis,	28,370	
Hague & Peters,	28,515	
D. S. Morgan,	29,590	
Otis Turner,	30,115	\$2,156
Edward & Thomas Kearns,	30,265	
Theo. & Wm. Mills,	30,580	
Henry Cady,	30,845	2,285
Ellicott & Bentley,	30,905	1,935
G. H. Boughton & Co.,	31,095	1,942
Chas. A. Danolds & Co,	31,275	1,612
Thompson & Nelson,	31,440	
Wm. Candee & Co.,	31,550	
Joseph M. Demmon,	31,570	
Barker & Talbot,	31,825	
Barton & O'Maley,	31,980	
Mills & Harwood,	32,050	
Truxton Burrill,	32,860	
L. A. G. B. Grant,	32,910	2,105
Horace Meigs,	32,990	
Gideon Hard,	33,095	
Samuel Andrews,	33,775	2,282
Asa W. Douglass,	33,880	
John Hayes,	33,980	
James Jackson, jr.,	34,555	2,050
Frisbie & Britt,	34,700	
Orville Clark,	34,715	2,295
Linus Jones Peck,	34,960	1,812
Samuel C. Holden,	35,190	1,942
Hawley & Barton,	35,770	1,665
Samuel & John Everett,	36,630	
Jacob Lawyer,	37,005	
Geo. M. Lanman,	37,180	2,263
Horatio N. Hewes,	37,430	1,709
Heman Blodgett & Co.,	37,600	
Guy Sherwood,	37,612	
Isaac Colton & E. Aikin,	37,625	2,155
Parmelee, White & Co.,	37,715	1,977
James Oswald & Co.,	37,995	
J. P. Smith,	38,010	
Oliver Charlick,	38,605	2,596
Ryan & Swan,	38,760	1,847

Names of Bidders.	Sections.	Ex. Abutments.
Orrin Britt,	38,821	
Cleary & Smith,	38,860	
John McCabe & Co.,	38,865	
Thomas King,	38,875	2,377
Sutton & Phillips,	40,580	1,675
Hiram Baker,	40,705	2,095
Chamberlain & Edgerton,	40,990	1,638
H. W. Campbell,	42,365	
Milton Courtwright,	43,160	
John Vernam & Co.,	43,435	
Walter J. Church,	45,610	
Levi Allen,	46,385	
Jonas Ingraham,	46,520	
Jos. & James Peacock, jr.,	46,935	
Chas. Porter & Co.,	47,090	2,524
Wm. H. Scott,	47,225	2,177
Hugh M. Severance,	47,310	1,935
Isaac N. Stage,	47,670	2,250
Judson W. Sherman,	48,100	
Richard Church,	48,100	
John T. Wright & Co.,	48,800	2,296
N. Osborn,	48,955	
Bradley Sherman,	52,818	
Angus P. McDonald,	54,745	
John H. Nichols,	54,910	
Brainard & Edgerton,	62,480	
Chamberlain & Bradley,		1,638
M. A. Harrington,		1,728
Field & Munger,		1,899
Wagner & Levings,		1,934
B. & J. Carpenter,		1,990
Asa D. Wood & Co.,		2,050
J. B. Hughes,		2,101
Jackson & Hitchins,		2,111
James O. Spencer,		2,393
Edward Leonard & Co.,		2,422

SECTION No. 322.

Engineers' estimates,	<u>\$37,973</u>	<u>\$2,932</u>	<u>\$3,760</u>
---------------------------------	-----------------	----------------	----------------

Names of Bidders.	Sections.	Culverts.	Bridge abutments.
Hague & Peters,	\$4,020		
T. & W. Mills,	36,370		

Harvey E. Williams,	36,885		
Robert Ennis,	37,295		
Mills & Harwood,	37,380		
Thompson & Nelson,	37,946		
Barton & O'Maley,	38,000	2,770	
Horace Meigs,	38,025		
John McCabe & Co.,	38,925		
Martindale & Ferrell,	39,510		3,650
John Hayes,	39,655		
Henry Cady,	39,720	3,345	4,520
Jonas Ingraham, & Co.,	40,305	3,376	
John Vernam & Co.,	40,620		
Wm. Candee & Co.,	40,765		
Angus P. McDonald,	40,920		
Oliver Charlick,	41,085		5,142
John H. Nichols,	41,300		
G. H. Boughton & Co.,	41,710		3,885
Parnele, White, & Co.,	41,746	2,695	3,905
Ryan & Swan,	42,125	3,044	
H. W. Campbell,	42,245		
Wm. H. Scott,	42,300	4,200	4,280
Ellicott & Bentley,	42,675		3,820
Chamberlain & Edgerton,	43,030		3,265
Hugh M. Severance,	43,145		3,860
James Jackson, jr.,	43,400	3,114	4,100
Jacob Lawyer,	43,575	3,573	
Linus Jones Peck,	43,610		3,624
Heman Blodgett & Co.,	43,635	3,538	
Geo. W. Peck,	43,780	2,740	4,424
N. Osborn,	43,890		
J. P. Smith,	44,570		
Colton & Aikin,	44,610	2,957	4,110
Geo. M. Lanman,	44,860	3,714	4,376
Hawley & Barton,	44,960	2,859	3,580
Walter I. Church,	45,105		
Thomas King,	45,345	2,620	4,755
Judson W. Sherman,	46,100		
Rich. Church,	46,100		
John T. Wright & Co.,	46,140		4,542
L. A. G. B. Grant,	46,230		4,140
Truxton Burrell,	46,230		
Barker & Talbot,	46,485		
Sutton & Phillips,	46,680	2,765	3,300
James Oswald & Co.,	46,980		
Levi Allen,	47,290		
Otis Turner,	48,000	3,519	4,237
Daniels & Douglass,	48,875	3,523	
Bradley Sherman,	49,640		

Names of Bidders.	Sections.	Culverts.	Br. Abutm'ts.
Samuel & John Everett,	50,720		
Wm. Cleary & Smith,	52,115		
Chas. Porter & Co.,	53,235	3,556	5,048
G. D. & W. G. Goodale,	57,525		
Brainard & Edgerton,	78,230		
Henry S. Wells,		2,927	
B. & J. Carpenter,		3,183	3,640
Chamberlain & Bradley,			3,257
M. A. Harrington,			3,432
Field & Munger,			3,698
Wagner & Levings,			3,858
Asa D. Wood & Co.,			4,000
J. B. Hughes,			4,192
Jackson & Hitchins, ..			4,123
Edward Learned & Co.,			4,545
James O. Spencer,			4,752

SECTION 323.

Engineers' estimate,	<u>\$27,804</u>	<u>\$4,320</u>	<u>\$2,252</u>
----------------------------	-----------------	----------------	----------------

Names of Bidders.	Sections.	Culverts.	Bridge abut's.
Hague & Peters,	\$23,540		
Wm. Candee & Co.,	23,660		
Harvey E. Williams,	24,035		
Mills & Harwood,	24,345		
T. & W. Mills,	24,530		
Thompson & Nelson,	25,026		
Horace Meigs,	25,040		
Henry Cady, ..	25,640	\$5,225	\$2,600
Jones, Ingraham & Co.,	26,240	5,430	
Barker & Talbot,	26,580		
Martindale & Ferrell,	26,900		2,110
John Hayes,	26,970		
Angus P. McDonald,	27,050		
John H. Nichols,	27,250		
Avery S. Delano,	27,350	4,300	1,935
G. H. Boughton & Co.,	27,390		2,223
Parmelee, White & Co.,	27,426	4,445	2,251
H. W. Campbell,	27,630		
Wm. H. Scott,	27,730	6,860	2,477
Jacob Sawyer,	27,910	5,705	
Hawley & Barton,	27,960	4,305	2,069
Herman, Blodgett & Co.,	28,220	5,740	

Names of Bidders.	Sections.	Culverts. Br
Ellicott & Bentley,.....	\$28,475	
Chamberlain & Edgerton,.....	28,620	
Geo. W. Peck,	28,700	\$4,700
Oliver Charlick,.....	28,710	
Hugh M. Severance,	28,970	
James Oswald & Co.,.....	29,210	
Linus Jones Peck,	29,260	
Ryan & Swan,.. ..	29,470	4,840
J. P. Smith,.....	28,590	
Colton & Aikin,	29,660	4,710
James Jackson, jr.,.....	29,720	4,827
G. M. Lanman,.....	30,285	5,980
Walter D. Church,	30,340	
N. Osborn,.....	30,490	
Sutton & Phillips,.....	30,580	5,000
Levi Allen,.....	30,610	
John McCabe & Co.,.....	30,990	
L. A. G. B. Grant,.....	31,070	
Truxton Burrill,.....	31,070	
Richard Church,.....	31,240	
Judson W. Sherman,.....	31,240	
John T. Wright & Co.,.....	31,260	
Otis Turner,.....	32,020	5,500
Chs. Porter & Co.,	32,640	5,680
Kingsley & James,.....	32,920	
Samuel & John Everett,	22,080	
Bradley Sherman,	33,450	
G. D. & W. G. Goodale,.....	39,070	
Thomas King,.....		4,120
B. & J. Carpenter,.....		4,305
Henry S. Wells,.....		4,710
Daniels & Douglass,.....		5,855
Chamberlain & Bradley,.....		
M. A. Harrington,.....		
Field & Munger,		
Wagner & Levings,		
Asa D. Wood & Co.,.....		
J. B. Hughes,		
Jackson & Hitchins,.....		
James O. Spencer,		
Edward Learned & Co,		

SECTION No. 324.

Engineers' estimate,	\$29,185	\$4,102
----------------------------	----------	---------

Names of bidders.	Sections.	Bridge abut's.
Wm. Candee & Co.,	\$23,580	
Hague & Peters,	23,920	
Thompson & Nelson,	24,226	
Horace Meigs,	25,380	
Harvey E. Williams,	26,295	
Martindale & Ferrell,	26,325	4,550
Barton & O'Maley,	26,380	
Angus P. McDonald,	26,420	
John H. Nichols,	26,510	
Henry Cady,	27,010	4,835
Wm. H. Scott,	27,250	4,580
John Vernam & Co.,	27,410	
Geo. W. Peck,	27,480	4,095
H. W. Campbell,	27,510	
G. H. Boughton & Co.,	27,570	4,166
John Hayes,	27,570	
Chamberlain & Edgerton,	27,640	3,497
Ellicott & Bentley,	27,745	4,095
Barker & Talbot,	27,780	
Jonas Ingraham,	28,030	
Hugh M. Severance,	28,080	4,131
Oliver Charlick,	28,410	5,498
Avery S. Delano,	28,760	3,580
N. Osborne,	28,820	
Parmele, White & Co.,	28,826	4,179
Jacob Sawyer,	28,840	
Heman Blodgett & Co.,	29,070	
Walter J. Church,	29,220	
J. P. Smith,	29,370	
Peterson & Willard,	29,500	
Linus Jones Peck,	29,550	3,884
Colton & Aikin,	29,560	4,391
John T. Wright & Co.,	29,770	4,858
Judson W. Sherman,	29,770	
Richard Church,	29,770	
Geo. M. Lanman,	30,040	4,677
Truxton Burrill,	30,410	
Thomas King,	30,480	5,075
Levi Allen,	30,640	
L. A. G. B. Grant,	30,850	4,435
James Oswald & Co.,	31,000	
Otis Turner,	31,490	4,531

James Jackson, Jr.,	\$32,145	\$4,381
Bradley Sherman,	32,170	
Sutton & Phillips,	32,500	3,534
Ryan & Swan,	32,530	3,906
Hawley & Barton,	33,230	2,832
Sam'l & John Everett,	33,710	
Cha's Porter & Co.,	34,620	5,383
Cleary & Smith,	35,320	
Kingsley & James,	38,200	
G. D. & W. G. Goodale,	40,880	
Chamberlain & Bradley,		3,489
M. A. Harrington,		3,674
Field & Munger,		3,953
B. & J. Carpenter,		3,908
Wagner & Levings,		4,145
Asa D. Wood & Co.,		4,280
J. B. Hughes,		4,341
Jackson & Hitchins,		4,410
Edward Learned & Co.,		4,853
James O. Spencer,		5,095

SECTION No. 325.

Engineer's estimate,	<u>\$28,977</u>
----------------------------	-----------------

Names of Bidders.	Bidder's.
Harvey E. Williams,	22,610
Wm. Candee & Co.,	23,230
Thompson & Nelson,	23,486
Hayne & Peters,	24,465
Henry Cady,	24,635
Jonas Ingraham,	24,775
Angus P. McDonald,	24,890
Martindale & Ferrell,	24,905
John H. Nichols,	24,985
Horace Meigs,	25,585
Wm. H. Scott,	25,645
Isaac N. Stage,	25,685
Chamberlain & Edgerton,	25,870
Hawley & Barton,	26,025
G. H. Boughton & Co.,	26,025
John Vernam & Co.,	26,030
Barker & Talbot,	26,065

[Assembly, No. 90.]

Names of Bidders.	Sections.
John Hayes,	\$26,245
Ellicott & Bentley,	26,265
Heman Blodgett & Co.,	26,685
Jacob Sawyer,	26,485
Oliver Charlick,	27,050
Hugh M. Severance,	27,185
Avery S. Delano,	27,255
Peterson & Willard,	27,470
Ryan & Swan,	27,480
Walter J. Church,	27,565
N. Osborn,	27,570
James Jackson, Jr.,	27,760
Parmelee, White & Co.,	27,761
Linus Jones Peck,	27,805
J. P. Smith,	27,925
John T. Wright & Co.,	28,095
Judson W. Sherman,	28,095
Richard Church,	28,095
Colton & Aikin,	28,225
Sutton & Phillips,	28,620
Geo. M. Lanman,	28,660
Levi Allen,	28,920
James Oswald & Co.,	29,140
L. A. G. B. Grant,	29,305
Thomas King,	29,310
Otis Turner,	29,885
Bradley Sherman,	30,280
Saml. & John Everett,	31,940
Charles Porter & Co.,	33,070
Cleary & Smith,	33,790

SECTION No. 326.

Engineers' estimate,	\$30,667	\$8,100	\$5,040
----------------------------	----------	---------	---------

Names of Bidders.	Sections.	Culverts.	Bridge abut.
Hague & Peters,	23,230		
Harvey E. Williams,	25,925		
Horace Meigs,	26,015		
Avery S. Delano,	27,820	7,560	4,235
Thompson & Nelson,	27,846		
Samuel Andrews,	28,110	7,096	
Wm. Cande & Co.,	28,850		
Jonas Ingraham & Co.,	28,945	9,250	

Names of Bidders.	Sections.	Culverts.	Bridge abut.
Chamberlain & Edgerton,	\$29,760		\$4,243
Martindale & Ferrell,	29,595		4,735
Angus P. McDonald,	29,615		
Henry Cady,	29,665	\$9,475	5,865
John H. Nichols,	29,710		
Barton & O'Maley,	29,965		
Hawley and Barton,	29,965	7,960	4,256
John Hayes,	30,045		
Isaac N. Stage,	30,140	7,050	5,825
Parmelee, White & Co.,	30,256	7,887	5,067
John Vernam & Co.,	30,440		
Wm. H. Scott,	30,685	11,200	5,550
Barker & Talbot,	30,800		
Geo. H. Boughton & Co.,	30,880		5,068
Ellicott & Bentley,	30,990		4,965
Jacob Sawyer,	31,070	10,195	
Heman Blodgett & Co.,	31,225	10,145	
N. Osborn,	31,270		
Ryan & Swan,	31,450	8,175	4,738
Oliver Charlick,	31,475		5,672
James Jackson, Jr.,	31,680	8,717	5,278
Sutton & Phillips,	31,680	9,385	4,282
Hugh M. Severance,	31,845		5,018
Colton & Aikin,	32,210	8,500	5,288
J. P. Smith,	32,380		
Peterson & Willard,	32,620		
Walter J. Church,	33,020		
Geo. M. Lanman,	33,135	10,300	5,645
Linus Jones-Peck,	33,345		4,714
Thomas King,	33,580	7,350	6,115
John T. Wright & Co.,	33,745		5,892
Judson W. Sherman,	33,745		
Richard Church,	33,745		
James Oswald & Co.,	34,220		
L. A. G. B. Grant,	34,280		5,375
S. Pierce & Co.,	34,348	8,685	5,817
Levi Allen,	34,400		
Otis Turner,	34,925	10,270	5,491
Chris. Porter & Co.,	35,080	10,050	5,486
Bradley Sherman,	36,270		
Kingsley & James,	36,610		
Samuel & John Everett,	36,985		
Cleary & Smith,	38,350		
B. & J. Carpenter,		8,370	4,744
Harry S. Wells,		8,550	
Daniels & Douglass,		9,590	
Chamberlain & Bradley,			4,235
M. A. Harrington,			4,660

Names of Bidders.	Sections.	Calverts.	Bridge abut.
Field & Munger,			\$4,776
Wagner & Levings,			5,036
Asa D. Wood & Co.,			5,175
J. B. Hughes,			5,273
Jackson & Hitchins,			5,337
Edward Learned & Co.,			5,829
Samuel Andrews,			5,867
James O. Spencer,			6,193

SECTION No. 327.

Engineers' estimate,	<u>\$29,888</u>	<u>\$3,600</u>	<u>\$1,880</u>
Thompson & Nelson,	23,136		
William B. Moore,	23,540		
Harvey E. Williams,	23,700		
Hague & Peters,	24,230		
Avery S. Delano,	25,435	3,480	1,695
Hilton & Ferry,	25,760	3,542	1,690
Chamberlain & Edgerton,	25,880		1,638
Jonas Ingraham & Co.,	25,900	4,350	
Barker & Talbot,	26,000		
William Candee & Co.,	26,020		
Angus P. McDonald,	26,560		
John H. Nichols,	26,760		
Henry Cady,	27,010	4,375	2,285
Martindale & Ferrell,	27,080		1,850
William H. Scott,	27,560	5,500	2,177
Parmelee, White & Co.,	27,586	3,512	1,977
George H. Boughton & Co.,	27,740		1,942
Hawley & Barton,	27,860	3,585	1,665
John Vernam & Co.,	27,890		
Homan Blodgett & Co.,	27,900	4,685	
Ellieott & Bentley,	28,085		1,935
John Hayes,	28,120		
Ryan & Swan,	28,290	4,025	1,847
Oliver Charlick,	28,410		2,596
James Jackson, jun.,	28,410	3,945	2,050
Sutton & Phillips,	28,440	4,160	1,675
N. Osborn,	28,470		
Hugh M. Severance,	29,020		1,925
J. P. Smith,	29,260		
Peterson & Willard,	29,280		

James Oswald & Co.,	\$29,520		
Colton & Aikin,	29,610	\$3,900	\$2,155
Levi Allen,	30,000		
Linus Jones Peck,	30,060		1,812
Walter J. Church,	30,250		
Geo. M. Lanman,	30,340	4,875	2,263
Daniels & Douglass,	30,590		
Thomas King,	30,620	3,350	2,377
Truxton Burrell,	30,950		
John T. Wright & Co.,	31,020		2,296
Judson W. Sherman,	31,020		
Richard Church,	31,020		
Chas. Porter & Co.,	31,200	4,425	2,524
L. A. G. B. Grant,	31,300		2,105
Otis Turner,	31,800	4,610	2,156
N. W. Gardiner,	32,840	4,850	
Kingsley & James,	32,940		
Bradley Sherman,	33,070		
Samuel & John Everett,	33,160		
Cleary & Smith,	34,660		
G. D. & W. G. Goodale,	39,500		
B. & J. Carpenter,		3,545	1,825
Henry S. Wells,		3,900	
Chamberlain & Bradley,			1,636
Field & Munger,			1,899
Wagner & Levings,			1,940
W. B. Hughes,			2,030
Asa D. Wood & Co.,			2,050
Jackson & Hitchins,			2,111
Dudley Curtiss,			2,207
No. 874,			2,277
James O. Spencer,			2,393
Edward Learned & Co.,			2,422

SECTION No. 328.

Engineers' estimate, \$34,502

Names of Bidders.	Sections.
Hague & Peters,	25,160
Harvey E. Williams,	27,960
Thompson & Nelson,	28,956
Samuel Andrews,	29,350
Jonas Ingraham,	31,740

Names of Bidders.	Bids.
Orville Clark,.....	\$31,790
John Hayes,	31,880
Horace Meigs,.....	31,930
Hilton & Terry,	32,770
James Oswald & Co.,.....	33,030
William Cande & Co.,.....	33,180
G. H. Boughton & Co.,	33,300
Sheldon Bronson,.....	33,580
Avery S Delano,.....	33,630
Henry Cady,	33,750
Hawley & Barton,	33,890
James Jackson, jun.,	33,970
Parmelee, White & Co.,	34,100
John Vernam & Co.,	34,170
Oliver Charlick,.....	34,510
Herman Blodgett & Co.,	34,620
Colton & Aikin,	34,870
N. Osborn,.....	34,990
Wm. H. Scott,	35,090
Ellicott & Bentley,.....	35,345
Ryan & Swan,.....	35,515
Angus P McDonald,.....	35,660
J. P. Smith,.....	35,720
Hugh M. Severance,	36,055
John H. Nichols,	36,450
Geo. M. Lanman,.....	36,575
Sutton & Phillips,	36,860
Thomas King,.....	37,000
James Burns,	37,165
Peterson & Willard,.....	37,400
Chamberlain & Edgerton,.....	37,620
Levi Allen,.....	37,700
Linus Jones Peck.....	37,840
Truxton Burrell,.....	37,920
Barker & Talbot,	28,010
L. A. G. B. Grant,.....	38,175
Edward & Thomas Kerns,	38,310
Kingsley & James,	38,490
Cleary & Smith,	38,780
Walter I. Church,	39,210
Otis Turner,	39,230
Samuel & John Everett,	40,130
Richard Church,.....	40,610
Judson W. Sherman,	40,610
John T. Wright & Co.,	40,670
N. W. Gardner,	41,430
John Mabee,	41,445
Sherman McLane,.....	42,390

Bradley Sherman,.....	\$42,680
Daniels & Douglass,.....	43,170
Chas. Porter & Co.,.....	43,600

SECTION No. 329.

Engineers' estimate,.....	\$30,242	\$6,838	\$4,132
---------------------------	----------	---------	---------

Names of Bidders.	Sections.	Calverts.	Bridge abutts.
Hague & Peters,.....	21,270		
Thompson & Nelson,.....	24,876		
Harvey E. Williams,.....	25,840		
Addison C. Moore,.....	27,690		
William Candee & Co.,.....	27,780		
Sheldon Bronson,.....	28,290		
Jonas Ingraham & Co.,.....	28,390	7,378	
Hilton & Terry,.....	28,490	6,033	8,663
Hawley & Barton,.....	28,550	5,937	8,512
Chamberlain & Edgerton,.....	28,860		8,497
Barker & Talbot,.....	28,980		
Angus P. McDonald,.....	29,070		
Orville Clark,.....	29,080	6,756	4,860
Ryan & Swan,.....	29,920	6,663	8,906
John H. Nichols,.....	29,960		
James Jackson, Jr.,.....	30,120	7,024	4,381
John Hayes,.....	30,170		
Sutton & Phillips,.....	30,400	6,496	8,534
William H. Scott,.....	30,430	8,505	4,580
Colton & Aikin,.....	30,520	6,726	4,191
Henry Cady,.....	30,600	6,980	4,835
Heman Blodgett & Co.,.....	30,610	7,532	
John Vernam & Co.,.....	30,605		
Geo. H. Boughton & Co.,.....	30,840		4,053
Parmelee, White & Co.,.....	31,090	5,904	4,179
Ellicott & Bentley,.....	31,195		4,095
Oliver Charlick,.....	31,220		5,498
James Oswald & Co.,.....	31,960		
N. Osborn,.....	32,000		
J. P. Smith,.....	32,120		
Hugh M. Severance,.....	32,260		4,131
Peterson & Willard,.....	32,560		
Levi Allen,.....	32,600		
N. W. Baldwin,.....	32,988	7,104	8,194
Geo. M. Lanman,.....	33,620	7,792	4,677

Names of bidders.	Sections.	Calverts.	Bridge abt'n.
Thomas King,	\$33,750	\$8,074	\$5,075
Chas. Porter & Co.,	33,830	7,993	5,383
Linus Jones Peck,	33,870		3,794
Truxton Burrill,	34,270		
James Burns,	34,295		
Walter I. Church,	34,310		
L. A. G. B. Grant,	34,620		4,435
Otis Turner,	35,170	7,372	4,531
Asa W. Douglass & Co.,	35,220		
John T. Wright & Co.,	35,270		4,858
Judson W. Sherman,	35,270		
Richard Church,	35,270		
Alonzo Newcomb,	36,075		
Saml. & John Everett,	36,230		
Kingsley & James,	36,450		
Sherman McLane,	36,790		
John Mabee,	36,790		
Bradley Sherman,	37,310		
Cleary & Smith,	41,900		
Henry S. Wells,		6,441	
B. & J. Carpenter,		7,273	3,908
Chamberlain & Bradley,			3,489
Field & Munger,			3,953
Martindale & Ferrell,			3,960
Wagner & Levings,			4,145
Asa D. Wood & Co.,			4,280
I. B. Hughes,			4,341
Jackson & Hitchins,			4,410
Dudley Curtiss,			4,575
Edward Learned & Co.,			4,853
James O. Spencer,			5,095

SECTION No. 330.

Engineers' estimates,	\$41,425	\$4,360	\$3,760
Harvey E. Williams,	28,150		
Thompson & Nelson,	29,196		
Mills & Harwood,	30,920		
T. & Wm. Mills,	31,230		
Hague & Peters,	31,540		
Addison C. Moore,	31,940		
Wm. Candee & Co.,	32,340		

Names of Bidders.	Sections.	Calverts.	Bridge abut.
John Hayes,	\$32,380		
Horatio N. Hewes,	32,880	\$4,284	\$3,710
Martindale & Ferrell,	32,970		3,650
G. H. Boughton & Co.,	33,040		3,885
Chamberlain & Edgerton,	33,200		3,265
Barton & O'Maley,	33,330	4,865	
Gideon Hard,	33,665	5,275	3,540
Henry Cady,	33,670	5,365	4,520
Hawley & Barton,	34,690	4,345	3,280
John McCabe & Co.,	34,900	6,616	
Barker & Talbot,	35,040		
Hilton & Terry,	35,140	4,345	3,420
Colton & Aikin,	35,210	4,790	4,114
Jonas Ingraham & Co.,	35,390	5,630	
Angus P. McDonald,	35,710		
Sutton & Phillips,	35,740	4,860	3,300
Ryan & Swan,	36,110	4,810	3,645
Parmelee, White & Co.,	36,220	4,710	3,905
Joseph & Jas. Peacock, jr.,	36,330		
James Jackson, jr.,	36,450	4,976	
Oliver Charlick,	36,570		5,142
Jacob Sawyer,	36,690	6,120	
James Burns,	36,735		
Heman Blodgett & Co.,	36,880	6,170	
Ellicott & Bentley,	37,095		3,820
Linus Jones Peck,	37,190		3,624
John H. Nichols,	37,260		
J. P. Smith,	37,520		
Hugh M. Severance,	37,760		3,860
Thomas King,	38,000	4,140	4,755
Geo. M. Lanman,	38,100	6,100	4,376
Walter J. Church,	38,110		
Truxton Burrill,	37,270		
Wm. H. Scott,	38,510	6,960	4,280
L. A. G. B. Grant,	38,800		4,140
Sherman Mc Lean,	38,870		
N. Osborn,	39,050		
Richard Church,	39,050		
Judson W. Sherman,	39,050		
John T. Wright & Co.,	39,170		
James Oswald & Co.,	39,580		
John Vernam & Co.,	39,700		
Chas. Porter & Co.,	39,740	5,500	5,048
Samuel & John Everett,	40,180		
Levi Allen,	40,680		
Otis Turner,	40,730	5,700	4,237
Daniels & Douglass,	40,880		
S. Pierce & Co.,	42,125	4,672	3,865
Bradley Sherman,	42,630		

Names of bidders.	Sections.	Culverts.	Bridge abut's.
John Mabee,	\$43,640		
Edward & Thomas Kerns,	44,900		
Cleary & Smith,	45,200		
Henry S. Wells,		\$4,790	
B. & J. Carpenter,		4,450	\$3,640
Chamberlain & Bradley,			3,257
Field & Munger,			3,698
Wagner & Levings,			3,870
Asa D. Wood & Co.,			4,000
J. B. Hughes,			4,050
Jackson & Hitchins,			4,123
Dudley Curtiss,			4,275
Edward Learned & Co.,			4,545

SECTION No. 831.

Engineers' estimate,	<u>\$33,902</u>	<u>\$1,428</u>	<u>\$2,252</u>
Harvey E. Williams,	23,910		
Hague & Peters,	25,280		
Thompson & Nelson,	25,606		
T. & W. Mills,	26,640		
Mills & Harwood,	26,840		
Addison C. Moore,	27,020		
Wm. Candee & Co.,	27,350		
Barker & Talbot,	27,500		
John Hayes,	27,685		
Martindale & Ferrell,	27,915		2,110
Geo. H. Boughton & Co.,	28,090		2,223
Henry Cady,	28,510	1,723	2,600
John McCabe & Co.,	29,390		
Barton & O'Maley,	29,455	1,386	
Milton A. Clyde & Co.,	30,030	2,471	
Chamberlain & Edgerton,	30,110		1,870
Hilton & Terry,	30,400	1,470	1,963
Geo. Reynolds & Co.,	30,506	1,311	2,251
Hawley & Barton,	30,950	1,282	2,067
Horatio N. Hewes,	31,030	1,599	2,107
James Jackson, Jr.,	31,155	1,672	2,331
Jonas Ingraham & Co.,	31,240	1,661	
Heman Blodgett & Co.,	31,350	1,711	
Jacob Sawyer,	31,380	1,776	
Oliver Charlick,	31,560		2,952

Names of Bidders.	Sections.	Culverts.	Bridge abut.
James Burns,.....	\$31,605		
John Vernam & Co.,.....	31,745		
Angus P. McDonald,.....	32,420		
Truxton Burrill,.....	32,480		
Ellicott & Bentley,.....	32,635		\$2,210
James Oswald & Co.,.....	32,690		
J. P. Smith,.....	32,740		
Thomas King,.....	32,770	\$1,295	2,697
Ryan & Swan,.....	32,810		2,108
Linus Jones Peck,.....	32,930		2,072
Colton & Aikin,.....	33,100	1,489	2,436
Geo. M. Lanman,.....	33,120	1,905	2,564
Sutton & Phillips,.....	33,350	1,562	1,909
Wm. H. Scott,.....	33,400	2,233	2,477
Hugh M. Severance,.....	33,450		2,206
L. A. G. B. Grant,.....	33,470		2,400
S. Pierce & Co.,.....	33,995	1,338	2,211
John H. Nichols,.....	34,140		
Sherman McLane,.....	34,180		
N. Osborn,.....	34,590		
Peterson & Willard,.....	34,740		
Samuel & Jno. Everett,.....	35,180		
Levi Allen,.....	35,180		
Otis Turner,.....	35,810	1,717	2,406
Judson W. Sherman,.....	36,030		
Richard Church,.....	36,030		
John T. Wright & Co.,.....	36,030		2,612
Daniels & Douglass,.....	37,200		
John Mabee,.....	37,690		
Cleary & Smith,.....	38,440		
Charles Porter & Co.,.....	40,040	1,749	2,859
McPhee & McKain,	41,170		
Thomas Wilson,.....	46,960		
John W. Griffin,.....	47,540		
Chamberlain & Bradley,.....			1,868
Field & Manger,.....			2,154
Henry S. Wells,.....		1,457	
B. & I. Carpenter,.....		1,541	2,093
Wagner & Levings,.....			2,215
J. B. Hughes,.....			2,321
Asa D. Wood & Co.,.....			2,330
Jackson & Hitchins,.....			2,398
Dudley Curtiss,			2,432
James O. Spencer,			2,726
Edward Learned & Co.,.....			2,730

SECTION No. 332.

Engineers' estimate,	<u>\$84,198</u>	<u>\$2,478</u>	<u>\$2,152</u>
----------------------------	-----------------	----------------	----------------

Names of bidders.	Sections.	Culverts.	Bridge abut's.
Harvey E. Williams,	28,610		
Wm. Candee & Co.,	25,120		
Barker & Talbot,	27,865		
Thompson & Nelson,	27,951		
Hague & Peters,	29,890		
T. & W. Mills,	29,680		
Mills & Harwood,	29,920		
G. H. Boughton & Co.,	30,090	2,012	2,223
A. C. Moore,	30,420		
Martindale & Ferrell,	30,730		2,110
Milton A. Clyde & Co.,	30,740	2,228	
John Hayes,	31,220		
Gideon Hard,	31,575	1,856	
Franklin Spaulding & Co.,	31,620	1,904	2,270
John McCabe & Co.,	32,130	3,222	
Geo. W. Peck,	32,350		2,183
Hawley & Barton,	32,410	2,011	1,897
James Oswald & Co.,	32,685		
Henry Cady,	32,770	2,303	2,600
Barton & O'Maley,	32,830	2,184	
Chamberlain & Edgerton,	32,870		1,870
Geo. Reynolds & Co.,	33,216	1,825	2,251
Ryan & Swan,	33,420		2,108
Horatio N. Hewes,	33,540	2,525	
Hilton & Terry,	33,700	2,108	1,963
James Jackson, jr.,	33,860	2,343	2,331
Samuel C. Holden,	33,870		2,215
James Burns,	34,625		
Oliver Charlick,	34,960		2,952
Colton & Aikin,	35,110	2,298	2,436
Jonas Ingraham & Co.,	35,240	2,359	
Jacob Lawyer,	35,320	2,107	
John Vernam & Co.,	35,345		
J. P. Smith,	35,440		
Truxton Burrill,	35,720		
Thomas King,	36,270	1,925	2,697
Heman Blodgett & Co.,	36,270	2,068	
Geo. M. Lanman,	36,500	2,571	2,564
Sutton & Phillips,	36,510	2,350	1,909
Ellicott & Bentley,	36,535		2,210
Angus P. McDonald,	36,660		
Linus Jones Peck,	36,810		2,072

Names of bidders.	Sections.	Culverts.	Bridge abut's.
L. A. G. B. Grant,	\$36,870		\$2,385
Hugh M. Severance,	37,250		2,206
N. Osborn,	37,540		
John H. Nichols,	37,750		
Peterson & Willard,	37,780		
Wm. H. Scott,	37,880	\$2,870	2,477
Asa W. Douglass & Co.,	37,920		
John T. Wright & Co.,	38,410		2,612
Samuel & John Everett,	38,630		
Sherman McLane,	38,830		
Levi Allen,	39,560		
Otis Turner,	39,770	2,257	2,406
Chas. Porter & Co.,	40,140	2,609	2,859
Judson W. Sherman,	40,210		
Richard Church,	40,210		
Cleary & Smith,	42,400		
McPhee & McKain,	46,850		
John W. Griffin,	49,060		
Thomas Wilson,	51,380		
Henry S. Wells,		2,040	
B. & J. Carpenter,		2,315	2,093
Chamberlain & Bradley,			1,863
Field & Munger,			2,154
S. Parmelee & Co.,			2,251
Wagner & Levings,			2,215
Asa D. Wood & Co.,			2,330
Jackson & Hitchins,			2,398
Nelson Howitt,			2,365
J. B. Hughes,			2,321
Dudley Curtis,			2,437
James O. Spencer,			2,726
Edward Learned & Co.,			2,730

SECTION No. 333.

Engineer's estimate,	\$47,390	\$5,410
<hr/>		
Names of bidders.	Sections.	Culverts.
Harvey E. Williams,	\$80,400	
Thompson & Nelson,	32,861	
Milton A. Clyde & Co.,	36,440	\$4,964
Hague & Peters,	37,620	
Hilton & Terry,	37,650	4,716

Names of Bidders.	Sections.	Calverts.
Jonas Ingraham & Co.,	\$37,690	\$5,705
John Hayes,	38,920	
Samuel Andrews,	39,310	4,247
Barker & Talbot,	39,716	
Wm. H. Scott,	39,830	4,985
Wm. Candee & Co.,	42,535	
Franklin Spaulding & Co.,	42,820	4,871
John McCabe & Co.,	42,840	7,141
Hawley & Barton,	43,190	4,630
Alanson Webster,	43,485	5,025
N. W. Baldwin,	43,708	5,422
Chamberlain & Edgerton,	43,820	
Angus P. McDonald,	43,860	
S. Pierce & Co.,	43,865	4,530
George Reynolds & Co.,	43,926	4,511
Geo. H. Boughton & Co.,	44,540	4,942
Barton & O'Maley,	44,715	4,821
Johnson & Harroun,	45,060	
John H. Nichols,	45,100	
Joseph & James Peacock, jr.,	45,640	
Martindale & Ferrell,	45,855	
Ryan & Swan,	45,920	
Horatio N. Hewes,	46,140	5,737
Colton & Aikin,	46,160	5,225
Loomis Lyman,	46,240	
Geo. W. Peck,	46,450	4,797
Sutton & Phillips,	46,760	4,928
Asa W. Douglass & Co.,	46,970	
James Oswald & Co.,	46,985	
McPhee & McKain,	47,000	
Heman Blodgett & Co.,	47,070	5,566.
Truxton Burrill,	47,070	
Jacob Sawyer,	47,120	5,755
Gideon Hard,	47,150	4,827
Nathan G. King & Co.,	47,270	5,589
N. Osborn,	47,390	
Samuel C. Holden,	47,570	
Addison C. Moore,	47,620	
James Jackson, jr.,	47,710	5,217
Thomas Wilson,	47,760	
Oliver Charlick,	47,810	
Sherman McLean,	47,930	
L. A. G. B. Grant,	48,270	
Chas. Porter & Co.,	48,440	6,005
John Vernam & Co.,	48,570	
J. P. Smith,	48,740	
Hugh M. Severance,	49,100	
Ellicott & Bentley,	49,785	

John W. Griffin,.....	\$50,370	
Peterson & Willard,	50,900	
Mahlon L. Ross,.....	51,110	\$5,168
Kingsley & James,.....	51,220	
Nelson Hewitt,	51,490	5,165
Thomas King,	51,920	4,645
Geo. M. Lanman,	52,750	6,075
James Burns,.....	53,135	
Samuel & John Everett,.....	53,355	
G. D. & W. G. Goodale,.....	53,795	
Levi Allen,.....	53,860	
Henry Cady,	54,110	5,463
Otis Turner,.....	54,970	5,736
Linus Jones Peck,.....	55,410	
Horace Meech,.....	56,850	
Cleary & Smith,.....	57,800	
Judson W. Sherman,.....	58,510	
John T. Wright & Co.,.....	58,510	
Richard Church,	58,510	
Edward & Thomas Kerns,	61,300	
Henry S. Wells,.....		4,987
B. & J. Carpenter,.....		5,590

SECTION NO. 384.

Engineers' estimate,.....	\$42,026	\$4,360	\$4,132
	<u> </u>	<u> </u>	<u> </u>
Names of Bidders.	Section.	Calverts. Bridge abutts.	
Harvey E. Williams,	29,360		
Thompson & Nelson,.....	30,941		
Hague & Peters,.....	31,720		
Milton A. Clyde & Co.,.....	33,040	4,670	
Hilton & Terry,.....	34,190	4,233	3,638
Barker & Talbot,	34,540		
Wm. H. Scott,	34,830	4,203	4,580
Jonas Ingraham & Co.,	35,010	5,007	
Samuel Andrews,.....	35,110	3,579	4,194
Wm. Candee & Co,.....	36,515		
Geo. Reynolds & Co.,.....	37,045	4,098	4,179
John Hayes,	37,625		
Addison C. Moore,	38,020		
Franklin Spaulding & Co.,.....	38,090	4,336	4,210
John McCabe & Co.,.....	38,220	6,284	
Johnson & Harroun,	38,740		

Names of Bidders.	Sections.	Calverts. Bridge abut's.	
Asa W. Douglass,.....	\$39,090		
Nathan G. King & Co.,	39,380	\$5,229	
S. Pierce & Co.,	39,705	4,009	\$3,479
James Oswald & Co.,.....	39,805		
Angus P. McDonald,.....	40,090		
Hawley & Barton,.....	40,130	3,901	3,512
G. H. Boughton & Co.,.....	40,160	4,521	4,166
Joseph & James Peacock, Jr.,....	40,210		
Loomis Lyman,	40,880		
Martindale & Ferrel,.....	40,880		3,910
Chamberlain & Edgerton,.....	40,940		3,497
Colton & Aikin,.....	40,980	4,416	4,391
McPhee & McKain,.....	40,985		
Barton & O'Maley,.....	41,210	4,058	
Cha's Porter & Co.,.....	41,440	5,120	5,383
Sutton & Phillips,	41,560	4,238	3,534
N. W. Baldwin,	41,698	4,933	3,184
Heman Blodgett & Co.,	41,790	5,299	
Jacob Sawyer,.....	41,840	5,299	
Horatio N. Hewes,.....	42,380	4,803	3,962
Samuel C. Holden,.....	42,440		4,148
Truxton Burrill,	42,450		
John Vernam & Co.,.....	42,540		
N. Osborn,.....	42,950		
John H. Nichols,.....	43,080		
Ryan & Swan,.....	43,090		3,906
Thomas King,.....	43,100	4,015	5,075
James Jackson, Jr.,	43,260	4,896	4,381
Thomas Wilson,.....	43,385		
J. P. Smith,	43,540		
Oliver Charlick,.....	43,630		5,498
L. A. G. B. Grant,.....	43,650		4,410
H. W. Campbell,	43,900		
Hugh M. Severance,.....	43,980		4,131
Alanson Webster,	44,230	4,375	
Ellicott & Bentley,	44,265		4,095
Sherman McLean,.....	44,700		
Mahlon L. Ross,	45,390	4,512	4,533
Geo. M. Lanman,.....	45,760	5,854	4,832
Peterson & Willard,.....	45,980		4,256
Kingsley & James,.....	46,210		
Nelson Hewitt,.....	47,470	4,776	4,429
James Burns,	47,555		
Henry Cady,.....	47,990	4,883	4,835
Cleary & Smith,.....	48,720		
Sam'l & John Everett,.....	48,830		
John W. Griffin,.....	48,848		
Levi Allen,	48,860		

Otis Turner,.....	49,050	5,196	1,449
Horace Meech,.....	49,090		
G. D. & W. G. Goodale,.....	49,750		
L. J. Peck,.....	50,050		3,884
Edward & Thomas Kerns,.....	50,940		
John T. Wright & Co.,.....	52,650		4,858
Chamberlain & Bradley,.....			3,489
Field & Munger,.....			3,953
Wagner & Levings,.....			4,145
Asa D. Wood & Co.,.....			4,280
J. B. Hughes,.....			4,341
Jackson & Hitchins,.....			4,410
Dudley Curtiss,.....			4,580
Edward Learned & Co.,.....			4,853
James O. Spencer,.....			5,095
Judson W. Sherman,.....	52,650		
Richard Church,.....	52,650		
Brainard & Edgerton,.....	80,932		
Henry S. Wells,.....		4,404	
B. & J. Carpenter,.....		4,816	3,908

SECTION No. 335.

Engineers' estimate,.....	<u>\$32,827</u>	<u>\$2,856</u>	<u>\$3,760</u>
Nelson Hewitt,.....	20,490		4,128
Harvey E. Williams,.....	20,490		
Thompson & Nelson,.....	24,521		
Jonas Ingraham & Co.,.....	25,980	2,812	
William H. Scott,.....	26,030	3,096	4,280
William Candee & Co.,.....	26,935		
A. C. Moore,.....	27,180		
Barker & Talbot,.....	27,380		
G. W. Peck,.....	27,410		4,424
John Hayes,.....	28,370		
John McCabe & Co.,.....	28,440	3,629	
Hague & Peters,.....	28,460		
G. H. Boughton & Co.,.....	28,560	2,522	3,886
Chamberlain & Edgerton,.....	28,580		3,866
Loomis Lyman,.....	28,600		
Martindale & Ferrell,.....	29,695		3,650
Johnson & Harroun,.....	29,760		
Angus P. McDonald,.....	29,962		

[Assembly, No. 90.]

Names of bidders.	Sections.	Culverts.	Bridge ab'ts.
Barton & O'Maley,	\$29,970	\$2,287	
Hugh M. Severance,	30,020		\$3,860
Sutton & Phillips,	30,040	2,554	3,300
Oswald & Buell,	30,185		
Hawley & Barton,	30,390	2,094	3,280
Peterson & Willard,	30,400		3,975
H. W. Campbell,	30,480		
Henry Cady,	30,550	2,701	4,520
Milton A. Clyde & Co.,	30,820	2,699	
Ellicott & Bentley,	30,885		3,820
Colton & Aikin,	31,000	2,468	4,110
George Reynolds & Co.,	31,206	2,292	3,905
N. Osborn,	31,210		
John Vernam & Co.,	31,220		
Heman Blodgett & Co.,	31,590	2,953	
Jacob Sawyer,	31,640	2,902	
James Jackson, Jr.,	31,820	3,014	4,100
Oliver Charlick,	31,930		5,142
Thomas King,	31,950	2,290	4,755
James Burns,	32,125		
Hilton & Terry,	32,150	2,525	3,400
Ryan & Swan,	32,760		3,645
Charles Porter & Co.,	32,840	3,038	5,048
Otis Turner,	33,010	2,754	4,160
Asa W. Douglass & Co.,	33,090		
Franklin Spaulding & Co.,	33,240	2,342	3,930
J. P. Smith,	33,300		
Mahlon L. Ross,	33,530	2,521	4,238
Kingsley & James,	33,580		
J. W. Sherman,	33,670		
Richard Church,	33,670		
Samuel & John Everett,	33,770		
Levi Allen,	34,500		
L. A. G. B. Grant,	34,570		4,140
Truxton Burrill,	34,570		
George M. Lanman,	34,670	2,490	4,530
Linus Jones Peck,	34,760		3,624
Alanson Webster,	34,790		
Horace Meech,	34,960		
J. H. Nichols,	35,030		
John T. Wright & Co.,	35,110		4,542
S. Pierce & Co.,	37,665	2,107	3,245
Chamberlain & Bradley,			3,257
Asa D. Wood & Co.,			3,400
Field & Munger,			3,698
Wagner & Levings,			3,870
J. B. Hughes,			4,050
Jackson & Hitchins,			4,123

Dudley Curtis,.....			\$4,280
Edward Learned & Co.,.....			4,545
James O. Spencer,			4,762
G. D. & W. G. Goodale,.....	\$37,790		
Cleary & Smith,.....	37,980		
McPhee & McKain,.....	35,095		
Thomas Wilson,.....	41,330		
John W. Griffin,.....	43,024		
Brainard & Edgerton,.....	57,970		
Henry S. Wells,.....		\$2,726	
Nathan G. King & Co.,.....		2,903	
B. & J. Carpenter,.....		2,726	3,640

SECTION No. 336.

Engineers' estimate,.....	\$26,201	\$2,478	\$4,780
Harvey E. Williams,.....	20,210		
Thompson & Nelson,.....	21,811		
Joseph M. Demmon,	22,450		
Wm. Cande & Co.,.....	22,650		
A. C. Moore,.....	23,290		
Hague & Peters,.....	23,500		
Chamberlain & Edgerton,	24,140		3,715
Geo. W. Peck,.....	24,270		4,691
Henry Cady,.....	24,570	2,303	5,135
Barker & Talbot,	24,700		
Wm. H. Scott,.....	24,810	2,870	4,860
J. Oswald & Wm. Buell, Jr., ..	24,995		
W. L. & H. W. Lewis,	25,035	1,605	4,408
John Hayes,	25,110		
H. W. Campbell,.....	25,140		
Barton & O'Maley,.....	25,695	2,124	
Hawley & Barton,.....	25,820	2,011	3,732
G. H. Boughton & Co.,.....	25,930		4,431
Ellicott & Bentley,	26,145		4,350
Nelson Hewitt,.....	26,180		
Milton A. Clyde & Co.,.....	26,190		
Geo. Reynolds & Co.,.....	26,246	1,725	4,439
John Vernam & Co.,	26,535		
Heman Blodgett & Co.,	26,590	2,043	
Jacob Lawyer,.....	26,660	1,960	
Linus Jones Peck,	26,900		4,124

Names of Bidders.	Sections.	Culverts.	Bridge abut.
Hugh M. Severance,	\$27,040		\$4,397
Oliver Charlick,	27,230		5,836
H. Hilton & Terry,	27,240	\$2,133	3,858
Peterson & Willard,	27,360		4,521
Colton & Aikin,	27,750	2,298	4,656
Sutton & Phillips,	27,870	2,350	3,754
James Jackson, Jr.,	28,160	2,343	4,646
J. P. Smith,	28,290		
Chris. Porter & Co.,	28,340	2,559	5,700
Horace Meech,	28,570		
N. Osborn,	28,620		
Ryan & Swan,	28,740		4,151
James Burns,	28,785		
Levi Allen,	28,900		
L. A. G. B. Grant,	29,540		4,710
Truxton Burrill,	29,540		
Geo. M. Lanman,	29,565	3,056	5,117
Richard Church,	29,660		
John T. Wright & Co.,	29,660		5,156
J. W. Sherman,	29,740		
Kingsley & James,	29,750		
Otis Turner,	29,750	2,257	4,722
Daniels & Douglass,	29,980		
Thomas King,	30,830	1,925	5,375
Franklin Spaulding & Co., . . .	31,080	1,904	4,475
McPhee & McKain,	32,660		
Cleary & Smith,	32,830		
Jonas Ingraham & Co.,	33,786	2,359	
John W. Griffin,	38,040		
John H. Nichols,	38,860		
Thomas Wilson,	39,080		
A. P. McDonald,	40,750		
Brainard & Edgerton,	51,310		
Henry S. Wells,		2,040	
B. & J. Carpenter,		2,315	4,158
Nathan G. King & Co.,		2,049	
Chamberlain & Bradley,			3,707
Field & Munger,			4,190
S. Parmele & Co.,			4,450
Asa D. Wood & Co.,			4,545
Jackson & Hitchins,			4,682
J. B. Hughes,			4,616
Edward Learned & Co.,			5,143
James O. Spencer,			5,413
Wagner & Levings,			4,405

SECTION No. 337.

..... \$4,487

	Section.
.....	3,560
.....	3,700
.....	3,750
.....	3,935
.....	3,955
.....	3,975
.....	4,170
.....	4,180
.....	4,340
.....	4,360
.....	4,360
.....	4,360
.....	4,440
.....	4,480
.....	4,510
.....	4,750
.....	4,830
.....	4,830
.....	4,890
.....	4,910
.....	4,940
.....	4,975
.....	5,470
.....	5,900
.....	6,050
.....	6,600
.....	7,300
.....	8,570
.....	9,100
.....	9,820
.....	10,000
.....	10,960
.....	11,450

SECTIONS 348 to 353.

Engineers' estimate,.....	<u>\$48,340</u>	<u>\$5,000</u>
---------------------------	-----------------	----------------

Names of Bidders.	Sections.	Calverts.
Oswald & Buell,	37,850	
T. & W. Mills,	40,200	
C. Joslyn,	40,990	
H. W. Campbell,	43,930	
Jonas Ingraham & Co.,	45,040	4,160
Samuel W. Crittenden,	45,240	
Mills & Harwood,	45,720	
Francis Hitchins & Co.,	45,830	
Horace Meech,	46,160	
John H. Carr,	47,080	
Alonzo H. Scriven,	47,790	7,935
A. P. McDonald,	47,800	
John H. Nichols,	48,220	
Chamberlain & Edgerton,	48,260	
William H. Scott,	48,700	5,100
Wood & Clark,	48,890	
Richardson & Barton,	49,120	
Hugh M. Severance,	49,130	
Oliver Charlick,	50,210	
Linus Jones Peck,	51,540	
James Burns,	51,960	
George M. Larman,	53,260	
L. A. G. B. Grant,	56,290	
Colton & Aikin,	57,180	
Otis Turner,	57,540	
Saml. C. Holden,	60,260	
Franklin Field, & Co., ..	61,615	23,590
B. & J. Carpenter,		4,950
Henry S. Wells,		4,120

SECTIONS 354 to 359.

Engineers' estimate,.....	<u>\$44,640</u>	<u>\$3,000</u>
---------------------------	-----------------	----------------

Names of Bidders.	Sections.	Calverts.
Oswald & Buell,	35,750	
C. Joslin,	38,350	
T. & Wm. Mills,	39,480	
H. W. Campbell, ..	40,470	
Samuel W. Crittenden,	43,080	

Names of Bidders.	Sections.	Culverts.
Horace Meech,	44,660	
Jonas Ingraham & Co.,	44,740	\$1,760
Mills & Harwood,	44,760	
Francis Hitchins & Co.,	44,850	
A. P. McDonald,	45,640	
John H. Carr,	45,910	
Chamberlain & Edgerton,	46,280	
John H. Nichols,	46,420	
Richardson & Barton,	46,720	
William H. Scott,	46,900	2,120
Alonzo H. Scriven,	46,950	9,935
Wood & Clark,	47,090	
Otis Turner,	47,940	
Oliver Charlick,	49,010	
Linus Jones Peck,	50,340	
James Burns,	50,920	
Hugh M. Severance,	50,690	
Geo. M. Lanman,	50,860	
L. A. G. B. Grant,	53,050	
Colton & Aikin,	55,260	
Samuel C. Holden,	55,580	
Franklin Field & Co.,	58,075	11,390
Henry S. Wells,		1,720
B. & J. Carpenter,		2,310

SECTION No. 360.

Engineers' estimate,	\$42,502	\$7,200	\$1,880
Names of Bidders.	Sections.	Culverts.	Bridge abut.
Wm. Candee & Co.,	29,160		
Mills & Harwood,	30,600		
Oswald & Buell,	31,300		
Wm. H. Scott,	32,720	6,295	2,177
Geo. H. Boughton & Co.,	33,180		1,942
Jonas Ingraham & Co.,	33,485	5,720	
Hague & Peters,	33,550		
T. & Wm. Mills, ..	33,940		
Andrew Cole,	34,835		
.....	35,230		
Barton & O'Maley,	35,760	8,234	
Peterson & Willard,	37,090		2,007
Alonzo H. Scriven,	37,815		2,027
Sutton & Phillips,	38,005	5,620	1,675

Names of Bidders.	Sections.	Calverts.	Bridge abut.
Oliver Charlick,.....	\$38,100		\$2,596
Horace Meech,.....	38,380		
John McCabe & Co.....	38,540	\$7,607	
Mahlon L. Ross,.....	39,020	5,440	2,144
John Hayes,.....	39,930		
Linus Jones Peck,.....	40,840		1,672
Harrison Park,.....	41,327		
Wood & Clark,.....	41,520		2,050
Kingsley & James,.....	41,800		
Clark & Tift,.....	41,925	6,190	1,727
Hitchins & Daniels,.....	42,040		
Cleary & Smith,.....	42,090		
Saml. W. Crittenden,.....	42,100		
Gerge M. Lanman,.....	42,170	6,595	2,415
James Burns,.....	43,190		
Henry Cady,.....	43,600		
Otis Turner,.....	43,730		2,250
Alanson Webster,.....	43,770	5,265	
L. A. G. B. Grant,.....	45,940		2,180
Blossom & Koch,.....	46,690	6,465	
Field & Munger,.....	46,740	6,906	1,890
Jacob Hinds,.....	47,060		
Chamberlain & Edgerton,.....	47,300		1,638
Hugh M. Seveance,.....	48,125		1,939
Solomon Parmelee & Co.,.....	48,750	4,717	2,127
Henry S. Wells,.....	48,985	5,310	
John H. Nichols,.....	51,670		
Colton & Aikin,.....	52,500		
Marlindale & Ferrell,.....			2,160
James O. Spencer,.....			2,398
Hugh Wheeler,.....			2,347
Edward Learned & Co.,.....			2,422
Hugh McMillen,.....			2,657
A. P. McDonald,.....	57,630		
Richard Church,.....	60,450		
Judson W. Sherman,.....	60,450		
John T. Wright & Co.,.....	60,450		2,296
Bradley Sherman.....	63,770		
Brainard & Edgerton,.....	76,100		
B. & I. Carpenter,.....		5,655	1,825
Chamberlain & Bradley,.....			1,636
M. A. Harrington,.....			1,728
Wagner & Levings,.....			1,940
Ellicott & Bentley,.....			2,060
I. B. Hughes,.....			2,080

SECTION No. 361.

Engineer's estimate,.....	\$88,630	\$1,880
Names of Bidders.	Sections.	Bridge abut's.
Hague & Peters,.....	\$59,280	
Oswald & Buell,.....	62,900	
Williams & Palmetter,.....	65,000	
Jonas W. Goodrich,.....	65,960	
John McCabe & Co.,	65,890	
Wm. Candee & Co.,.....	66,770	\$1,672
Linus Jones Peck,.....	71,360	
Jacob Hinds,.....	72,350	
Jonas Ingraham,.....	72,620	
Johnson & Harroun,.....	73,920	
Loomis Lyman,.....	74,663	
Wm. H. Scott,	75,580	2,177
Mills & Harwood,.....	75,600	
Andrew Cole,	79,460	
Theodore D. Barton,.....	80,720	
Henry Cady,.....	81,750	
Martindale & Terrell,.....	82,780	2,160
G. H. Boughton & Co.,	83,380	2,942
Chamberlain & Edgerton,.....	84,200	1,638
Horace Meech,	85,580	
Alonzo H. Scriven,.....	86,020	2,027
L. A. G. B. Grant,.....	88,090	2,180
Wood & Clark,	88,950	2,250
Sutton & Phillips,.....	89,880	1,675
James Burns,.....	90,290	
Hitchins & Daniels,.....	94,470	
Alanson Webster,.....	95,660	
Otis Turner,.....	100,020	2,250
John H. Nichols,	100,320	
Field & Munger,.....	102,920	1,899
Solomon Parmele & Co.,.....	105,040	2,127
A. P. McDonald,.....	106,780	
Blossom & Koch,.....	110,140	
Hugh M. Severance,.....	110,600	1,939
Clark & Tift,.....	113,450	1,727
Colton & Aikin,.....	114,580	
Judson W. Sherman,.....	118,890	
Richard Church,.....	118,890	
John T. Wright & Co.,.....	118,890	2,236
Barton & O'Maley,.....	122,110	
Harrison Park,.....	125,260	
Oliver Charlick,.....	126,850	2,596

Names of Bidders.	Sections.	Bridge abut's.
Bradley Sherman,	\$128,370	
Geo. M. Lanman,	134,460	\$2,415
Andrew Kingsley & James,	139,200	
John Hayes,	141,530	
Peterson & Willard,	143,940	2,007
Mahlon L. Ross,	143,970	2,144
Wm. Scott,	145,620	
Henry S. Wells,	153,260	
Brainard & Edgerton,	220,580	
Chamberlain & Bradley,		1,636
Hawley & Barton,		1,665
M. A. Harrington,		1,713
B. & J. Carpenter,		1,825
Wagner & Levings,		1,940
Ellicott & Bentley,		2,060
J. B. Hughes,		2,105
Hugh Wheeler,		2,347
James O. Spencer,		2,393
Edward Learned,		2,422
Hugh McMillen,		2,609

SECTION No. 362.

Engineers' estimate,	\$79,730	\$3,158	\$1,880
	<u>=====</u>	<u>=====</u>	<u>=====</u>
Names of Bidders.	Sections.	Culverts.	Bridge abut's.
Hague & Peters,	53,100		
Jonas W. Goodrich,	55,930		
Williams & Palmeter,	57,875		
Wm. Candee & Co.,	58,740		
John McCabe & Co.,	59,110		
Johnson & Harroun,	65,240		
Jonas Ingrahan & Co.,	65,700	2,429	
Oswald & Buell,	66,170		1,670
Jacob Hinds,	66,230		
Mills & Harwood,	66,460		
Loomis Lyman,	67,819		
T. D. Barton,	68,140		
Wm. H. Scott,	68,240	2,840	2,177
Linus Jones Peck,	72,020		1,672
Chamberlain & Edgerton,	72,090		1,636
Andrew Cole,	72,145		
Martindale & Ferrell,	72,630		2,160

	Sections.	Culverts.	Bridge abut's.
.....	\$72,640		
.....	73,720		
.....	75,790		\$2,027
.....	76,460		1,942
.....	78,160		2,180
.....	79,100		2,050
.....	79,600		
.....	80,370		
.....	81,105	\$2,280.	1,675
...	85,750	2,438	
...	88,390		2,250
...	89,690		
..	94,530	3,027	1,899
..	95,650		
..	95,895	2,707	1,727
..	96,990		
.	97,575		1,939
.	99,910	1,936	2,127
.	101,180		2,596
.	102,700		
	105,950		2,296
	105,950		
	106,010	2,339	
	107,200		
	109,310		2,007
	111,360		
	114,230		
	115,370		
	120,040	3,116	2,415
	126,650		
	128,090	2,521	2,144
	133,135	2,140	
	186,930		
		2,151	1,665
		2,405	1,825
			1,636
			1,940
			2,060
			2,105
			2,247
			2,393
			2,422
			517

SECTION 363.

Engineers' estimates,.....	<u>\$40,830</u>	<u>\$1,880</u>
----------------------------	-----------------	----------------

Names of bidders.	Sections.	Bridge abut's.
Wm. Candee & Co.,.....	29,610	
Mills & Harwood,.....	30,750	
Jonas Ingraham,.....	33,720	
Andrew Cole,.....	33,950	
Hague & Peters,.....	34,000	
Barton & O'Maley,.....	34,535	
Horace Meech,.....	35,230	
Oswald & Buell,.....	35,340	1,670
Mills & Mills,.....	35,680	
Wm. H. Scott,.....	35,760	2,177
John McCabe & Co.,.....	36,030	
Martindale & Ferrell,.....	36,380	2,160
Samuel W. Crittenden,.....	36,600	
A. H. Scriven,.....	36,840	2,027
Sutton & Phillips,.....	37,320	1,675
Loomis Lyman,.....	37,675	
Chamberlain & Edgerton,.....	37,910	1,638
Oliver Charlick,.....	38,050	2,596
E. & T. Kearns,.....	38,658	
Mahlon L. Ross,.....	39,170	2,144
Peterson & Willard,.....	39,440	2,007
Geo. M. Lanman,.....	39,870	2,415
G. H. Boughton & Co.,.....	39,980	1,942
Harrison Park,.....	40,102	
L. A. G. B. Grant,.....	40,590	2,180
Sawin & Barnes,.....	40,620	2,035
Clark & Tift,.....	41,050	1,727
Kingsley & James,.....	41,200	
James Burns,.....	43,490	
Hitchins & Daniels,.....	44,920	
Otis Turner,.....	44,180	2,270
John T. Wright & Co.,.....	45,750	2,296
Richard Church,.....	45,750	
Judson W. Sherman,.....	45,750	
Wood & Clark,.....	45,810	2,050
John Hayes,.....	46,330	
Cleary & Smith,.....	47,040	
Field & Munger,.....	47,340	1,899
Blossom & Koch,.....	47,440	
Hugh M. Severance,.....	48,500	1,939
Linus Jones Peck,.....	48,940	1,672

Names of bidders.	Sections.	Bridge abut's
Henry S. Wells,.....	\$49,360	
Bradley Sherman,	49,570	
John H. Nichols,.....	52,120	
Colton & Aikin,.....	52,980	
Solomon Parmele & Co.,.....	56,200	\$2,127
A. P. McDonald,.....	58,080	
Brainard & Edgerton,	81,270	
Chamberlain & Bradley,.....		1,636
B. & J. Carpenter,.....		1,825
Wagner & Levings,.....		1,940
Ellicott & Bentley,.....		2,060
J. B. Hughes,		2,105
Hugh Wheeler,		2,347
James O. Speneer,		2,393
Edward Leonard & Co.,		2,422
Hugh McMillen,		2,669

SECTION NO. 364.

Engineers' estimate,.....	37,198	1,880
---------------------------	--------	-------

Names of Bidders.	Sections.	Bridge abut's.
Wm. Candee & Co.,.....	26,934	
Mills & Harwood,	27,220	
Hague & Peters,.....	28,834	
Jonas Ingraham,.....	30,456	
Mills & Mills,.....	30,624	
Oswald & Buell,.....	31,276	1,670
Moses Baker,	31,306	
Hugh M. Severance,	31,402	1,939
Barton & O'Maley,.....	31,716	
Andrew Cole,	31,852	
Wm. H. Scott,.....	31,864	2,177
Martindale & Ferrell,	32,020	2,160
Alonzo H. Scriven,	32,860	2,027
Horace Meech,.....	33,252	
Sam'l W. Crittenden,.....	33,404	
John McCabe & Co.,	33,644	
Sutton & Phillips,	33,656	1,675
John Hayes,	33,874	
Loomis Lyman,	34,127	
Oliver Charlick,.....	34,386	2,596
Chamberlain & Edgerton,.....	34,946	1,638

Names of Bidders.	Sections.	Bridge abut'n.
L. A. G. B. Grant,.....	\$36,294	\$2,180
Geo. M. Lanman,.....	36,406	2,415
Sawin & Barnes,.....	36,724	2,035
Alanson Webster,.....	36,900	
Harrison Park,.....	36,951	
Clark & Tiff,.....	37,574	1,727
Mahlon L. Ross,.....	38,774	2,144
James Burns,.....	39,096	
Otis Turner,.....	39,484	2,070
Hitchins & Daniels,.....	40,276	
Linus Jones Peck,.....	40,512	1,672
Wood & Clark,.....	40,630	2,050
Richard Church,.....	40,822	
John T. Wright & Co.,.....	40,822	2,296
Judson W. Sherman,.....	40,822	
Field & Munger,.....	41,812	1,899
Wagner & Levings,.....		1,940
G. H. Boughton & Co.,.....		1,942
Peterson & Willard,.....		2,007
Ellicott & Bentley,.....		2,060
J. B. Hughes,.....		2,105
Hugh Wheeler,.....		2,322
James O. Spencer,.....		2,393
Edward Learned & Co.,.....		2,422
Hugh McMillen,.....		2,671
Cleary & Smith,.....	41,816	
Blossom & Koch,.....	42,080	
Bradley Sherman,.....	44,242	
Henry S. Wells,.....	44,580	
A. P. McDonald,.....	45,884	
John H. Nichols,.....	46,424	
Michael Werley,.....	46,638	
Colton & Aikin,.....	47,748	
Solomon Parmelee & Co.,.....	49,704	2,125
Brainard & Edgerton,.....	67,804	
Chamberlain & Bradley,.....		1,636
B. & J. Carpenter,.....		1,825

SECTION No. 365.

Engineers' estimate,.....	\$37,110	\$1,880
	<u> </u>	<u> </u>
Names of Bidders.	Sections.	Bridge abut.
Wm. Candee & Co.,.....	26,620	
Hague & Peters,.....	28,570	
Edwd & Thomas Kerns,.....	29,500	

Jonas Ingraham,	\$30,280	
Hugh M. Severance,	30,650	\$1,939.
Oswald & Buell,	31,100	1,670
Martindale & Ferrell,	31,580	2,160
Wm. H. Scott,	31,600	2,177
Andrew Cole,	31,720	
Oliver Charlick,	32,110	2,596
A. H. Scriven,	32,640	2,027
John McCabe & Co.,	33,390	
Saml. W. Crittenden,	33,640	
Horace Meech,	34,400	
Sutton & Phillips,	34,980	1,675
John Hayes,	35,870	
Clark & Tift,	35,790	1,727
Chamberlain & Edgerton,	35,870	1,638
Geo. M. Lanman,	36,230	2,415
Alanson Webster,	36,310	
Swain & Barnes,	36,460	2,035
Truxton Burrill,	37,720	
Harrison Park,	37,987	
Barton & O'Maley,	38,440	
Mahlon L. Ross,	38,510	2,144
James Burns,	38,850	
Hitchins & Daniels,	39,150	
Otis Turner,	39,220	2,270
L. A. G. B. Grant,	39,230	2,180
Linus Jones Peck,	40,160	1,672
Field & Munger,	40,460	1,899
John T. Wright & Co.,	40,470	2,296
Richard Church,	40,470	
J. W. Sherman,	40,470	
Wood & Clark,	40,510	2,050
Cleary & Smith,	41,200	
Blossom & Koch,	41,640	
Bradley Sherman,	43,890	
Henry S. Wells,	44,360	
A. P. McDonald,	45,620	
John H. Nichols,	46,160	
Colton & Aikin,	47,660	
Solomon Parmelee & Co.,	49,440	2,127
Michael Werley,	62,580	
Brainard & Edgerton,	67,970	
Chamberlain & Bradley,		1,636
B. & I. Carpenter,		1,825
Wagner & Leviogs,		1,940
G. H. Boughton & Co.,		1,942
Ellicott & Bentley,		2,060
Peterson & Willard,		2,007

	Bridge abut.
J. B. Hughes,.....	\$2,105
Hugh Wheeler,.....	2,322
Hugh McMillen,.....	2,360
James O. Spencer,.....	2,393

SECTION No. 366.

	Sections.
Engineers' estimate,.....	\$73,778
Hague & Peters,.....	58,910
Edward & Thomas Kerns,.....	63,890
Samuel W. Crittenden,.....	64,840
Jonas W. Goodrich,.....	66,500
Williams & Parmenter,.....	69,400
John McCabe & Co.,.....	71,320
Sawin & Barnes,.....	75,960
Sutton & Phillips,.....	76,300
Linus Jones Peck,.....	77,080
Chamberlin & Edgerton,.....	77,670
Wm. Candee & Co.,.....	78,260
Truxton Burrill,.....	78,420
Mills & Harwood,.....	78,820
Jonas Ingraham,.....	80,130
Loomis Lyman,.....	80,755
Andrew Cole,.....	83,180
Wm. H. Scott,.....	84,920
Martindale & Ferrell,.....	91,380
Oswald & Buell,.....	93,560
Horace Meech,.....	94,200
James Burns,.....	98,650
Hitchins & Daniels,.....	104,450
A. P. McDonald,.....	107,320
John H. Nichols,.....	107,860
Alanson Webster,.....	110,000
Otis Turner,.....	111,060
Barton & O'Maley,.....	111,140
John T. Wright & Co.,.....	112,310
Richard Church,.....	112,310
J. W. Sherman,.....	112,310
Oliver Charlick,.....	113,710
Field & Munger,.....	117,240
Hugh M. Severance,.....	119,100
Blossom & Koch,.....	122,240
Clark & Tift,.....	122,890
Bradley & Sherman,.....	123,590
Peterson & Willard,.....	125,480

	Sections.
Harrison Park,.....	\$128,625
Wood & Clark,.....	130,880
Kingsley & James,.....	132,720
Geo. M. Lanman,.....	134,260
John Hayes,.....	137,870
Mahlon L. Ross,.....	140,410
L. A. G. B. Grant,.....	143,630
Henry S. Wells,.....	181,160
Brainard & Edgerton,.....	245,770

SECTION No. 367.

Engineers' estimate,.....	\$58,400	\$7,020
---------------------------	----------	---------

Names of Bidders.	Sections.	Culverts.
Hague & Peters,.....	31,870	
Wm. Candee & Co.,.....	36,100	
Mills & Harwood,.....	38,960	
John McCabe & Co.,.....	39,780	
Mills & Mills,.....	39,980	
Andrew Cole,.....	42,210	
Chamberlain & Edgerton,.....	42,670	
Horace Meech,.....	43,770	
Oswald & Buell,.....	44,260	
Truxton Burrill,.....	44,760	
Loomis Lyman,.....	44,980	
Sawin & Barnes,.....	45,860	7,615
Jonas Ingraham & Co.,.....	46,330	6,400
Linus Jones Peck,.....	46,380	
Alanson Webster,.....	47,060	6,090
James Burns,.....	49,350	
Peterson & Willard,.....	49,420	
Wm. H. Scott,.....	50,420	
Hitchins & Daniels,.....	50,910	
Michael Werley,.....	51,700	
Otis Turner,.....	52,460	
Sutton & Phillips,.....	53,610	6,250
John T. Wright & Co.,.....	53,710	
Richard Church,.....	53,710	
J. W. Sherman,.....	53,710	
Barton & O'Maley,.....	53,740	8,785
Harrison Park,.....	53,865	
Samuel W. Crittenden,.....	53,940	
Hugh M. Severance,.....	54,020	
Clark & Tift,.....	54,590	6,755

[Assembly, No. 90.]

Names of Bidders.	Sections.	Culverts.
Oliver Charlick,	\$56,500	
Field & Munger,	56,670	\$7,375
Wood & Clark,	57,230	
Blossom & Koch,	57,300	
Angus P. McDonald,	57,320	
John H. Nichols,	57,860	
Bradley Sherman,	58,510	
L. A. G. B. Grant,	63,470	
Geo M. Lanman,	65,520	7,360
Kingsley & James,	66,520	
Mahlon L. Ross,	67,160	5,795
Henry S. Wells,	69,720	5,790
Brainard & Egerton, ...	103,650	
B. & J. Carpenter,		6,765

SECTION No. 368.

Engineers' estimate,	\$23,520	\$2,252
----------------------------	----------	---------

Names of Bidders.	Sections.	Bridge abut.
Hague & Peters,	14,810	
Mills & Harwood,	15,260	
Mills & Mills,	15,760	
Wm. Candee & Co.,	15,960	
Horace Meech,	17,500	
Sutton & Phillips,	18,160	1,909
Chamberlain & Edgerton,	19,310	1,870
Ball & Barton,	19,480	
Linus Jones Peck,	19,480	1,912
Cleary & Smith,	19,650	
James Burns,	20,070	
Hugh M. Severance,	21,000	2,211
Oswald & Buell,	21,080	
Barton & O'Maley,	21,220	
Loomis Lyman,	21,520	
Otis Turner,	21,360	2,581
Wood & Clark,	22,700	2,330
Andrew Cole,	22,740	
John T. Wright & Co.,	22,860	2,612
Richard Church,	22,860	
J. W. Sherman,	22,860	
Oliver Charlick,	22,920	2,952

Names of Bidders.	Sections.	Bridge abut.
Blossom & Koch,.....	\$23,120	
Henry S. Wells,.....	23,380	
Wm. H. Scott,.....	23,860	\$2,477
John McCabe & Co.,.....	24,940	
Bradley Sherman,.....	24,950	
L. A. G. B. Grant,.....	25,290	2,485
Jonas Ingraham,.....	25,840	
Clark & Tift,.....	28,060	1,957
Field & Munger,.....	28,790	2,154
Geo. M. Lanman,.....	28,840	2,717
John H. Nichols,.....	28,930	
Mahlon L. Ross,.....	30,180	2,409
A. P. McDonald,.....	31,660	
Brainard & Eginton,.....	40,190	
Chamberlain & Bradley,.....		1,868
Richardson & Barton,.....		2,057
B. & J. Carpenter,.....		2,093
Wagner & Levings,.....		2,215
Geo. H. Boughton & Co,.....		2,223
Ellicott & Bently,.....		2,345
J. B. Hughes,.....		2,406
James O. Spencer,.....		2,726
Edward Learned & Co.,.....		2,730
Hugh Wheeler,.....		2,861
Hugh McMilleu,.....		3,000

SECTION No. 369.

Engineers' estimate,.....	<u>\$34,521</u>	<u>\$2,252</u>
---------------------------	-----------------	----------------

Names of bidders.	Sections.	Bridge abut.
Mills & Harwood,.....	20,860	
William Candee & Co.,.....	21,560	
Hague & Peters,.....	21,610	
Mills & Mills,.....	22,160	
Carmichael & Chapman,.....	23,390	
Horace Meech,.....	25,600	
Chamberlain & Edgerton,.....	26,910	1,870
Alanson Webster,.....	27,740	
James Burns,.....	28,070	
Ball & Barton,.....	28,280	
Linus Jones Peck,.....	28,480	1,912

Names of Bidders.	Section.	Bridge abut.
Hugh M. Severance,.....	\$29,800	\$2,211
Otis Turner,.....	29,860	2,581
Andrew Cole,.....	30,740	
John T. Wright & Co.,.....	30,860	2,612
Richard Church,.....	30,860	
J. W. Sherman,.....	30,860	
Oswald & Buell,.....	31,080	
Barton & O'Maley,.....	31,120	
Blossom & Koch,.....	31,520	
Henry S. Wells,.....	31,780	
Wood & Clark,.....	32,000	2,330
Jonas Ingraham,.....	32,240	
Oliver Charlick,.....	33,720	2,952
Bradley Sherman,.....	33,750	
William H. Scott,.....	33,860	2,489
L. A. G. B. Grant,.....	34,290	2,485
John McCabe & Co.,.....	34,940	
Field & Munger,.....	37,990	2,154
John H. Nichols,.....	38,930	
Geo. M. Lanman,.....	39,240	2,717
Clark & Tift,.....	42,580	1,957
A. P. McDonald,.....	43,660	
Chamberlain & Bradley,.....		1,868
Sutton & Phillips,.....		1,909
Richardson & Barton,.....		2,051
B. & J. Carpenter,.....		2,093
Wagner & Levings,.....		2,215
G. H. Boughton & Co.,.....		2,223
Ellicott & Bentley,.....		2,345
J. B. Hughes,.....		2,406
James O. Spencer,.....		2,726
Edward Learned & Co.,.....		2,730
Hugh Wheeler,.....		2,861
Hugh McMillen,.....		3,154

SECTION No. 370.

Engineers' estimate,.....	\$65,048	\$2,252
---------------------------	----------	---------

Names of Bidders.	Section.	Bridge ab'ts.
William H. Scott.....	45,460	2,177
Andrew Cole.....	51,120	
Jonas Ingraham.....	51,220	
Hague & Peters.....	52,480	
Jonas W. Goodrich.....	53,860	
Carmichael & Chapman.....	54,800	
C. J. & Henry De Graw,.....	55,540	
Clark & Tift.....	55,880	1,727
Barton & O'Maley.....	55,900	
Ball & Barton.....	55,890	
Blossom & Koch.....	59,420	
Martindale & Ferrell.....	60,850	
Horace Meech.....	62,150	
Chamberlain & Edgerton.....	62,290	1,638
John McCabe & Co.....	62,380	
Mills & Harwood.....	62,560	
Henry S. Wells.....	63,820	
Oliver Charlick.....	64,870	2,596
Field & Munger.....	64,720	1,899
A. P. McDonald.....	65,300	
George M. Lanman.....	66,890	2,415
Samuel C. Holden.....	67,325	
Hugh M. Severance.....	69,420	1,939
Johnson & Harroun.....	70,080	
Moses Baker.....	70,761	
George H. Boughton & Co.....	71,300	1,942
Wood & Clark.....	72,200	2,050
Judson W. Sherman.....	72,420	
Richard Church.....	72,420	
John T. Wright & Co.....	72,420	2,296
L. A. G. B. Grant.....	74,780	2,180
John H. Nichols.....	75,320	
Otis Turner.....	81,300	2,270
Bradley Sherman.....	88,240	
Oswald & Buell.....	88,200	
Brainard & Eginton.....	90,260	
William Capdee & Co.....	91,340	
Linus Jones Peck.....	190,420	1,672
Chamberlain & Bradley.....		1,636
Sutton & Phillips.....		1,675

Names of bidders.	Sections. Bridge ab'ts.
Richardson & Barton.....	\$1,825
B. & J. Carpenter.....	1,825
Wagner & Levings.....	1,940
Ellicott & Bentley.....	2,060
J. B. Hughes.....	2,105.
Alonzo H. Scriven.....	2,232
Hugh McMillin.....	2,339
James O. Spencer.....	2,397
Edward Learned & Co.....	2,422
Hugh Wheeler.....	2,847

GUARD LOCK AT BLACK ROCK.

Engineers' estimate,.....	<u>\$26,730</u>
---------------------------	-----------------

Names of bidders.	
Henry Barnes.....	20,885
Sutton & Phillips.....	23,340
Ball & Barton.....	23,945
Clark & Tift.....	25,095
Francis Hitchins & Co.....	25,130
Alonzo H. Scriven.....	25,320
G. H. Boughton & Co.....	25,415
William Buell, Jr., & Co.....	26,025
Blossom & Koch.....	26,765
B. & J. Carpenter.....	26,625
Sawin & Barnes.....	27,385
Field & Munger.....	28,135
Peterson & Willard.....	29,060
Wood & Clark.....	31,755
George M. Lanman.....	33,800
Oliver Charlick.....	36,215
Robert Fero & J. D. Gross.....	36,195

WASTE-WEIRS.

Engineer's estimate,	<u>\$1,080</u>	<u>\$300</u>	<u>\$1,490</u>
----------------------------	----------------	--------------	----------------

Names of Bidders.	Section 330.	Section 337.	Section 360.
S. Pierce & Co.,	875		
Hilton & Terry,	955		
J. B. Hughes,	1,038	420	1,678
Chamberlain & Bradley,	1,124	415	1,714
Geo. M. Lanman,	1,135	547	1,782
Sutton & Phillips,	1,180		1,735
B. & J. Carpenter,	1,205	340	1,735
Thomas King,	1,425	600	
Ingraham & Bolles,	1,555	550	2,030
Wm. H. Scott,	1,985	500	1,895
Hawley & Barton,		460	
Alanson Webster,			1,527
Alonzo H. Scriven,			1,807
Clark & Tift,			2,584
Blossom & Koch,			2,842
Field & Munger,			2,942

INDEX

TO

ASSEMBLY DOCUMENTS, 1852.

A.

	No.
Academies, report on application of Fairfield academy,	63
Accidents, report relative to accidents on railroads,.....	82
Adams, Horace, report on petition of,.....	29
Adjutant General, annual report of,.....	7
Administration of justice, report on the, (see New-York,) ..	97
Affidavits, relative to the claim of Marcus Brown,.....	96
Agricultural Institution, report on Governor's message rela- tive to the,	100
Agricultural Society, Transactions of the,.....	126
Albany bridge, report on bridging the river at Albany,	115
Albany and Schenectady Turnpike Co., report on application of the, to abandon part of their road,.....	110
American Institute, Transactions of the,	129
Assembly, list of members with counties and Assembly dis- tricts,..... ..	2
rules and orders of the, of last year,.....	3
standing committees of the,	5
rules and orders of 1852,	12
list of members and officers with residence, &c.,... ..	13
joint rules of Senate and Assembly,	36
general orders of the,	52

	No.
Assembly, list of members, with their places of birth, age, occupation, &c.,.....	128
Attorney General, see report of Secretary of State respecting books purchased by the,.....	120
Auditor Canal Department, report containing estimates for expenses of the canals,....	116
report relative to the expenditures on the canals,.....	125

B.

Babcock, John H. and others, report on petition of,.....	47
Baldwin, Wm. W. and Catharine V. S., report on petition of for relief,	79
Banks, report of Commissioners respecting unclaimed deposits and dividends in,.....	127
Banking Department, annual report of the Sup. of the,....	9
Bargy, Peter, jun., deceased, report on petition of P. Cagger, administrator of,	75
Bates, Lorenzo, report on bill for relief of,	48
Becker, Peter, report on the petition of,	38
Big Chazy river, report relative to improving navigation of,.	57
Bigham, Andrew, report on the petition of, for relief,.....	83
Bills, list of bills in committee of the whole, and unacted on, March 20, 1852,.....	95
Books, purchased by the Attorney General,	120
Bridges, report on bill of Genesee Suspension Bridge Co.,...	45
see report on petition of authorities of Lansingburgh for a toll bridge,.....	77
report respecting bridge at Albany,.....	115
Bridging river at Albany,	115
Brown, Marcus, report on the petition of, for relief,	76
affidavits relative to the claim of,	96

C.

Cagger, Peter, administrator, report on petition of,.....	75
Caldwell, G. & J. W., report on their petition,.....	71
Canal Board, to hear and determine the claim of A. Rockwell & Co.,.....	72

	No.
Canal Commissioners, annual report of,.....	33
Canal Fund, report of the Commissioners of the,.....	15
Canal lettings, report of joint select committee on,.....	89
Central New-York Eclectic Medical College, report on the petition and bill to incorporate the,.....	108
Chancery, see report on the funds of the court of,.....	56
Chazy river, Big, report on petitions to improve navigation of,.....	57
Clemens, Joshua W., report on petition of,.....	54
Clerk of the Assembly, see report of Comptroller in answer to resolutions of the Assembly in relation to refunding to the Clerk amount advanced for postage stamps, &c.,.....	124
Clinton State Prison, see report relative to iron works at,...	62
Cobb, Edwin H., report on bill for the relief of,.....	16
Codifying the Common School Law, report of the commis- sioners for,.....	21
Colleges. Metropolitan College, report against a charter for,	87
Colonization, report in relation to,.....	44
Commissioners of Emigration, see report of select committee to examine into the condition, &c., of the trusts under charge of the,.....	34
Commissioners of the Land Office, report respecting an act granting land under water in the town of Westfield,....	121
Commissioners of Canal Fund, annual report of the,.....	15
Commissary General, annual report of the,.....	26
Committees. Standing committees of the Assembly,.....	5
To examine the State Prisons, report,.....	20
Common Schools, see report of commissioners to codify the	21
Annual report of Superintendent of,....	25
Comptroller, annual report of the,.....	10
Report respecting receipts into the General Fund and time of holding tax sale,.....	103
Report respecting unsold lands,.....	105
Report in answer to resolutions respecting his refusing to refund to the clerk amount ad- vanced by said clerk for postage stamps, &c.,	124

Contested seat, see report on the contested seat claimed by	No
Job G. Elmore,.....	28
See minority report on contested seat of Rus-	
sel Smith,.....	46
Pay to Job G. Elmore,.....	65
Cornwall, Augustus, report on petition of, for relief,.....	113
Corporations, see report on petition of corporate authorities	
of Lansingburgh for toll bridge,.....	77
Crandall, Clark, report on petition of, for relief,.....	106
County clerks, report of Secretary of State respecting fees of,	118
Court of Chancery, see report respecting funds of the,.....	56

D.

Deaf and Dumb, annual report and documents of the insti-	
tion for instructing the.....	112
Defendorf, Charles and David, report on the petition of....	68
Delaware and Hudson Canal Co., report respecting violation	
of the charter of the.....	60
minority report as to violation	
of charter,.....	70
Division, report relative to the division of Wayne Co.,...	67, 55
Divorce, report on the subject of,.....	73
Dundee Salt Springs, report on petition of G. P. Ross and	
others, in relation to testing the	91
Dunning, Jonathan O., report on petition of,.....	59

E.

Education, see memorial of E. Willard and others, on female	
education,.....	117, 74
Elmore, Job G., report on the petition of, claiming seat held	
by Jacob Westbrook, Jr.,	28
report on resolution to pay him while contesting	
the seat of Jacob Westbrook, Jr.,.....	65
Emigration, report of committee to examine into the con-	
dition, &c , of the trusts under charge of the com. of	34
Frie Canal Feeder, report on petition of citizens of Roches-	
ter in relation to the,.....	109

F.

Fairbank, Dexter, and others, see report of Commissioners	
Land Office, respecting land under water at Westfield, .	121
Fairfield Academy, report on the application of trustees of	63
Farm, Agricultural Institution and,	100
Folts, George, report on the petition of,	37
Foreman, Winfield S., report on petition of, for damages, . .	80
Funds, see report of the funds of the Court of Chancery, . .	56

G.

General Fund, report of Comptroller relative to receipts into	
the,	103
General Insurance Law, 1849, report on the act to amend	
the act of the,	99
General orders of the Assembly,	52
Genesee river, occupancy of waters of Genesee river, at	
Rochester,	102
Genesee Suspension Bridge Co., report on the bill entitled	
the,	45
Goodsell, Thomas, report on petition of,	51
Governor, Annual Message of the,	1
Graves, Jacob and others, report on memorial relative to oc-	
cupancy of the waters of Genesee river at Rochester, . . .	102

H.

Hartman, John, report on petition of,	94
Hill, Wm. S. and others, see report of Commissioners of the	
Land Office respecting land under water at Westfield, .	121
Horton, Allen W. report on the petition of,	31
Houseaur, Michael, report on petition of, for relief,	98
Hulburt, Levi, report on petition of,	58
Hulse, David, report on petition of,	59

I.

Indians, see report in regard to claim of purchasers of lands	
from the Ononda,	61

	No.
Inspector General, annual report of the,.....	8
Insurance, report on the act to amend the general Insurance 'Law, of 1849,.....	99
Institution, see report relative to the Agricultural,.....	100
Interest, see report on petition of O. Poole for payment of interest,.....	84
report on claim of H. Showdy for,.....	86
Intemperance, report relative to the adoption of stringent means for the supervision of,.....	88
Iron, works for manufacture of Iron at Clinton Prison,.....	62

J.

Joint Rules of the Senate and Assembly, 1852,.....	36
Justice, report on the administration of justice in New-York,	97

K.

King, Dexter S. and others, see report of Commissioners of the Land Office, respecting the granting of land under water at Westfield,.....	121
Knapp, Aaron, report on the petition of,.....	32

L.

Lafoy, John, report on the petition of,.....	54
Land Office, see report of the Commissioners of the Land Of- fice respecting the granting of land under water at West- field,	121
Lands unsold, report of Comptroller relative to,.....	105
Lansingburgh, report on the petition of the corporate author- ities of, for a toll bridge,.....	77
Laws, codification of common school,.....	21
Lettings, see report on canal letting,	89
Le Valley, Franklin, report on petition of,.....	18
Libby, James S. and others, see report of Commissioners of the Land Office on the bill granting lands under water at Westfield,.....	121

INDEX.

7

	No.
Life insurance, report on petitions and memorials, in reference to the business of,.....	111
List of bills, in committee of the whole, and unacted on March 20, 1852,.....	95

M.

Manorial lands, report on the petition of tenants upon, for relief,.....	92
Mears, James R., & Wm., report on the petition of,.....	24
Medical College, report to incorporate the "Central New-York Eclectic Medical College" at Rochester,	108
Mechanics' and Traders' Savings Institution, N. Y., see report of minority upon bill to incorporate the,.....	40
Medical Society, Transactions of the,	85
Members, names of members of the Assembly,	2
List of, and officers, with place of residence, &c.,	13
Merrill, John, report on the petition of,.....	66
Message, of the Governor, (annual,).....	1
Metropolitan College, minority report against a charter for the,	87

N.

Names of members of the Assembly,....	2
of standing committees,.....	5
Natural History, report of commissioners to superintend the completion of the printing of the,.....	23
Annual report of Regents of the University,.....	122
New-York Mechanics' and Traders,' Savings Institution of, .	40
administration of justice in, report,.....	97
New-York Prison Association, annual report of the,.....	123
New Paltz, report on petition of inhabitants for the erection of a new town,.....	107
Normal school, cause of panic at public exercises of the,....	119

O.

	No.
Oneida Indians, report on claims of purchasers of lands from the,	61
Orders, rules and, of the Assembly last year,.....	3
general,.....	52
Oswegatchie river, report on bill for an appropriation to im- prove the,.....	93

P.

Patent, Woodworth's, extension of,.....	64
Philips, John C., report on petition of,.....	47
Poole, Oliver, report on petition of, for relief,.....	84
Prescott, Ebenezer, report on petition of,.....	39
Prison Association, annual report of the,.....	123

R.

Railroads, annual report of State Engineer and Surveyor,...	27
report relative to accidents on,	82
Ransom Lewis, report on petition of,	47
Rector, Henry, report on the petition of,.....	53
Regents of the University, annual report of the,.....	122
Reports, Adjutant General's (annual,).....	7
Agricultural Institution and farm,	100
Attorney General's, (books,).....	120
Auditor's report, estimates for expenses of the canals	116
expenditures on the canals,.....	125
Colozination,	44
Commissary General's annual report,.....	26
Commissioners of Canal Fund, (annual,).....	15
Commissioners of emigration,.....	34
Commissioners of the Land Office, lands under water at Westfield,.....	121
Commissioners to superintend the completion of the printing of the Natural History,.....	23
Common school law, on codifying the,.....	21
Committee to examine the State Prisons,.....	20
Canal Commissioners', annual,.....	33
Canal lettings, report on,	89

	No.
Report, Comptroller's annual,	10
about receipts into the General Fund	
and time of holding tax sale,	103
in answer to resolutions of the As-	
sembly in regard to the amount	
advanced by the clerk for postage	
stamps,	124
county clerks' fees, see report of Secretary of State,	118
deaf and dumb,	112
Emigration, Commissioners of,	34
funds in court of chancery,	56
general insurance law of 1849,	99
Inspector General's, annual,	8
insurance law of 1849, report on the act to amend,	99
intemperance, suppression of,	88
Joint committee to examine treasurer's accounts, ..	14
Land Office Commissioners, land under water at	
Westfield,	121
Manorial lands, on petition of tenants,	92
Medical Society, Transactions,	85
Onondaga salt springs,	43
Prison Association, report of the,	123
Regents of the University, annual report,	122
Secretary of State, respecting books purchased by	
the Attorney General,	120
in reference to session laws, ...	11
common school report,	25
respecting fees of county clerks,	118
State Engineer and Surveyor, on canals,	90
of railroadsof New-York,	27
State library building,	42
Superintendent banking department, annual,	9
common schools,	25
Onondaga salt springs,	43
suppression of intemperance,	88
Transactions of Medical Society,	85
Treasurer's accounts, committee to examine the, ..	14
annual,	6

	No.
Report, Trustees State library building,	42
unclaimed deposits and dividends in banks,.....	127
Resolutions, report on reference of a resolution relating to State prisons,.....	114
Rivers, improvement of Oswegatchie river,.....	93
Rochester city, report on petition and bill to incorporate the central New-York eclectic Medical College in the city of Rochester,.....	108
report on petition of citizens of, in relation to canal feeder,	109
report on petition of citizens of Rochester in relation to Erie canal feeder,.....	109
Rochester, (town,) report on petition of inhabitants of Shawan- gunk, New Paltz and Rochester, Ulster co., for the erec- tion of a new town,.....	107
Rockwell, Andrew & Co., report on petition of, for a law au- thorizing the Canal Board to hear and determine their claim,	72
Ross, George P. and others, report on petition of, for aid in testing the value and availability of the Dundee salt springs,.....	91
Ross, Mahlon, report on petition of for relief,.....	101
Rules and orders of the Assembly of last year,.....	3
of the Assembly for 1852,.....	12
Joint rules of the Senate and Assembly, ..	36

S.

Sage, Hezekiah, report on petition of,.....	69
Saving Institution, minority report upon incorporating the Mechanics' and Traders Saving Institution, N. Y.,.....	40
Sears, Eliphalet, report on the petition of,.....	29
Secretary of State, report of, in reference to Session Laws,..	11
annual report of, as Superintendent of Common Schools,.....	25
report relative to fees of County Clerks, ..	118
report respecting books purchased by the Attorney General,.....	120
Session Laws, see report of Secretary of State, in reference to,	11

INDEX.

11

	No.
Seymour, A. & Co., report on the petition of,.....	41
Shawangunk, report on petition of inhabitants for a new town,.....	107
Showdy, Henry, report on petition of, for pay of interest, ..	86
Smith & Co , (of Canajoharie,) report on petition for relief,.	104
Smith, Russell, minority report in relation to his seat,	46
Snow, Ephraim L., minority report about seat held by,.....	46
Sons of Temperance, report on petition of the,.....	50
South East, report on petition of the Sons of Temperance of,	50
State Engineer and Surveyor, annual report of the, on rail-roads,.....	27
State Library building, report of Trustees of,....	42
State Normal School, report respecting causes of the panic attending late public exercises at the,	119
State Prisons, report of committee to examine the,.....	20
iron works at Clinton State Prison,.....	62
report on reference of a resolution relating to,	114
Sternburgh, Wm., report on the petition of,	30
Superintendent of Common Schools, annual report of the,..	25
Superintendent Banking Department, annual report of,....	9
Superintendent Onondaga Salt Springs, annual report of,..	43
Suppression of intemperance,	88

T.

Tax sale, see report of Comptroller relative to time of holding the,.....	103
Temperance, see report on petition of the Sons of, of Southeast,	51
Thurman, Washington, report on petition of, for relief,....	17
Transactions, of the Medical Society,.....	85
State Agricultural Society,.....	126
American Institute,.....	129
Treasurer, annual report of the,.....	6
report of com., to examine accounts of the,.....	14
Troy Female Seminary, see report on memorial of Emma Willard,.....	74, 117
Trustees, of State Library building, report of,.....	42

	No.
Trustees of Westfield, report of Commissioners of the Land Office, respecting land under water at Westfield,.....	121
Turnpikes, report on application of Albany and Schenectady Turnpike Co., to abandon part of their road,.....	110

U.

Ulster county, erection of a new town in,.....	107
Unclaimed deposits and dividends, report of commissioners appointed by the Comptroller to enquire into and ascertain amount of,.....	127
Unsold lands, report in relation to,.....	105

V.

Van Alstyne, Charity report on the petition of, for relief, 78,	19
Van Inwagen, Anthony, report on petition of,	49
Vroman, Charles, do do	58

W.

Wayne county, report relative to division of,.....	55
minority report in relation to the division of,	67
Westbrook, Jacob Jr., see report of committee on petition of Job G. Elmore, claiming seat of,.....	28
see report to pay Job G. Elmore, Jr.,.....	65
Westfield, see report of Commissioners of Land Office, respecting the granting of land under water, at.....	121
Willard, Emma, and others, memorial of, relative to female education,.....	117, 74
Williams, William H., report on petition of, for relief,	81
Willis, Joseph, report on petition of, for relief,.....	4
Wood, Seymour S., report on petition of,.....	35
Woodworth patent, minority report in relation to the extension of the	64
Worrell, Joshua, report on the petition of	22

